HMSHE81	784966	HMMER 2.1.1	PFAM: PX domain	PF00787	29.1	128	421
HMSDL70	909997	blastx.14	(AF083331) kinesin-like protein KIF1B [Rattus norvegicus]	gi|3493139|gb|AAC3 3292.1|	100%	2	103
HMSBO95	796724	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.61	273	302
HMMBL55	731523	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	2.03	227	271
HMMAT08	959005	blastx.14	DOCK180 protein [Homo sapiens]	gi|1339910|dbj|BAA0 9454.1|	49% / 66%	137 / 310	301 / 426
HMCHZ77	771795	HMMER 2.1.1	PFAM: Nucleoside transporter	PF01733	81.6	5	283
HMALZ77	856266	HMMER 2.1.1	PFAM: Isochorismatase family	PF00857	88.5	2	232
HMAJL09	950168	HMMER 1.8	PFAM: ADP-glucose pyrophosphorylase	PF00483	150.92	20	256
		blastx.14	£270 [Escherichia coli]	gi|290545|gb|AAA62 048.1|	100% / 100%	254 / 468	469 / 512
HMAIQ20	669436	HMMER 1.8	PFAM: Bacterial mutT protein	PF00293	3.43	172	234
HMAIH15	956705	blastx.2	Hypothetical protein MJ0456 [Escherichia coli]	dbj|BAA35499.1|	100%	3	203
HMAIA55	899404	blastx.2	(AF027204) putative tetraspan transmembrane protein L6H [Homo sapiens]	gb|AAB82947.1|	35% / 39%	188 / 601	532 / 789
HMADF74	944465	HMMER 2.1.1	PFAM: Leucine Rich Repeat	PF00560	42.8	369	440

Clone	ID	SeqID	Method	Description	Accession	Score		
HMACV54	922354		blastx.2	leucine-rich repeat protein [Arabidopsis thaliana]	emb|CAA76000.1|	34%	294	674
HMABD66	388074	8379	HMMER 2.1.1	PFAM: Aldose 1-epimerase	PF01263	116	418	176
HLYHK61	932994	8381	HMMER 2.1.1	PFAM: 60Kd inner membrane protein	PF02096	59.8	222	365
		8386	blastx.14	GTP binding protein [Mus musculus]	gi|53169|emb|CAA36803.1|	88% 95% 96% 82% 90%	133 489 33 723 398	420 686 131 809 487
HLYHK34	703776	8387	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	13.18	436	519
HLYGQ11	966539	8401	HMMER 1.8	PFAM: RNA recognition motif. (aka RRM, RBD, or RNP domain)	PF00076	4.45	96	134
HLYEA70	943886	8431	HMMER 2.1.1	PFAM: Dihydrodipicolinate synthetase family	PF00701	22.8	304	408
HLYCF37	949401	8459	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	12.84	1249	1326
HLYBX91	790234	8463	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	3.14	710	754
HLMHL66	910804	8555	HMMER 2.1.1	PFAM: Fibrinogen beta and gamma chains, C-terminal globular domain	PF00147	40.5	157	252
			blastx.14	(AF107253) angiopoietin Y1 [Homo sapiens]	gi|4378598|gb|AAD19608.1|	65% 72% 30%	157 333 41	252 365 100
HLCDA67	887375	8581	HMMER	PFAM: BTB/POZ domain	PF00651	101.9	160	504

HJPAY56	909242	8600	HMMER 2.1.1	PFAM: Zinc finger, C2H2 type	PF00096	39.9	78	146
			2.1.1					
			blastx.2	(AC004076) R30217_1 [Homo sapiens]	gb|AAB97932.1|	62%	3	212
						64%	3	206
						59%	3	200
						54%	3	206
						56%	6	206
						47%	9	212
						42%	3	233
						43%	18	212
						49%	3	191
						40%	21	212
						38%	3	206
						43%	21	191
						40%	3	212
						43%	12	212
						42%	3	149
						42%	3	149
						48%	6	161
						37%	69	212
						36%	3	149
						39%	166	234
						47%	172	234
						38%	172	234
						33%	172	234
						44%	181	234
						50%	181	234
						55%	181	234
						25%	154	234
						50%	181	234

Clone	No.	No.	Method	Description	Accession			
HJPAA60	586675	8604	HMMER 2.1.1	PFAM: Adenosine/AMP deaminase	PF00962	77%	208	234
						44%	181	234
						55%	208	234
						46%	190	234
HJBCZ05	925805	8611	HMMER 1.8	PFAM: TPR Domain	PF00515	78.6	96	533
						12.67	205	291
			blastx.14	(AF132856) suppressor of G2 allele of skp1 homolog [Homo sapiens]	gi|4809026|gb|AAD30062.1|	88%	520	840
						98%	85	357
						58%	798	869
						25%	151	258
HHEZO92	942859	8638	HMMER 2.1.1	PFAM: tRNA synthetase class II (G, H, P, S and T)	PF00587	59.7	94	450
			blastx.14	(AC002131) Similar to seryl-tRNA synthetase 1 [Arabidopsis thaliana]	gi|3157938|gb|AAC17621.1|	62%	97	306
						47%	325	507
HHEWX06	933879	8643	blastx.14	ORF 3 [Rattus norvegicus]	gi|57053|emb|CAA29033.1|	32%	38	241
						53%	5	43
HHEPG59	925436	8681	blastx.14	IP63 protein [Rattus norvegicus]	gi|2764951|emb|CAA67705.1|	58%	251	66
						52%	541	440
						50%	346	257
HHEMG02	917366	8704	blastx.14	similar to NIFS protein (nitrogen fixation) [Caenorhabditis elegans]	gi|722379|gb|AAC46685.1|	67%	525	608
						56%	441	488
						53%	641	685
HHELA35	878217	8711	HMMER 2.1.1	PFAM: Beta-lactamase	PF00144	175.4	118	450
HHEKZ12	878267	8712	HMMER 1.8	PFAM: Beta-lactamases	PF00144	132.1	102	380
HHEAJ78	773538	8739	HMMER	PFAM: Helicases	PF00271	3.92	2	82

Clone	ID	Method	Description	Accession	Score/%		
		1.8	conserved C-terminal domain				
HHEAA02	932265	blastx.14	The ha1438 gene product is related to a C728 protein 1	gi|559715|dbj|BAA07556.1|	87%	53	445
					60%	35	103
					88%	519	569
					100%	563	592
					100%	491	517
					88%	441	467
					58%	567	617
					57%	448	489
					25%	41	160
HFSAG03	960973	HMMER 1.8	PFAM: Helicases conserved C-terminal domain	PF00271	6.39	454	365
HEOOA49	942561	HMMER 2.1.1	PFAM: FAD binding domain	PF01565	115.8	1	201
		blastx.2	Aip2p [Saccharomyces cerevisiae]	gb|AAA79142.1|	73%	1	252
					50%	343	549
					42%	549	626
HEONO59	741361	HMMER 2.1.1	PFAM: Fibronectin type III domain	PF00041	39.4	508	582
		blastx.2	(AF117210) host cell factor 2 [Homo sapiens]	gb|AAD27814.1|AF117210_1	99%	331	702
					97%	23	253
					97%	707	847
HEONL09	961147	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	9.17	96	152
HEOMX01	913683	blastx.14	alpha-3 type IX collagen [Homo sapiens]	gi|1196421|gb|AAC41947.1|	40%	349	480
					36%	328	468
					31%	325	468
					27%	316	513
					32%	331	468

ID	Number	Method	Description	Accession	Value		
HDTJF05	931977	blastx.14	polyprotein [Hepatitis C virus]	gi|464178|dbj|BAA03581.1|	34%	328	468
					61%	241	279
					35%	328	411
					41%	337	408
					77%	241	267
					63%	241	273
					58%	244	279
					66%	306	332
					35%	185	244
					28%	394	468
HDTIO74	933606	blastx.14	(AL021749) protein phosphatase 2C-like protein [Arabidopsis thaliana]	gi|2842482|emb|CAA16879.1|	53%	394	438
					47%	168	218
					50%	49	90
					60%	208	237
					75%	258	281
					45%	148	5
HDTIO16	934151	HMMER 2.1.1	PFAM: WD domain, G-beta repeat	PF00400	117.6	164	283
		blastx.14	(AF072880) SOCS box-containing WD protein SWiP-1 [Homo sapiens]	gi|4754060|gb|AAD28808.1|AF072880_1	99%	2	613
					85%	610	672
					70%	686	715
HDTDP02	919572	blastx.14	(AF151872) CGI-114 protein [Homo sapiens]	gi|4929697|gb|AAD34109.1|AF151872_1	76%	135	212
HDTDD72	587710	HMMER 1.8	PFAM: ATP synthase A chain	PF00119	85.33	165	350
HDTDB37	587699	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.43	201	218
HDTCC55	934923	blastx.14	(AL117483) hypothetical	gi|5911963|emb|CAB	46%	306	389

Clone	ID	Method	Description	Accession	Score		
HDTBD67	899636		protein [Homo sapiens]	55956.1|	46% 35% 42%	453 4 105	542 105 167
HDTBD67	8860	HMMER 1.8	PFAM: Laminin G domain	PF00054	53.09	615	1004
	902517 9731	HMMER 1.8	PFAM: Laminin G domain	PF00054	53.23	278	667
HDTAA31	937609 8871	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	12.8	1331	1408
HDTAA31	941948 9732	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	12.8	1331	1408
HDPXN01	915919 8899	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	4.29	99	146
HDPUN39	957580 8916	HMMER 2.1.1	PFAM: HECT-domain (ubiquitin-transferase).	PF00632	197.8	1783	1067
		blastx.14	hypothetical protein 2 - human (fragment)	pir|B38919|B38919	66%	1723	1070
HDPSB10	961309 8928	HMMER 2.1.1	PFAM: Zinc finger, C2H2 type	PF00096	32.9	67	135
		blastx.2	(AF091457) zinc finger protein RIN ZF [Rattus norvegicus]	gb|AAD22522.1|AF091457_1	61%	1	252
HDPRR24	914667 8932	blastx.14	(AF086837) snapin [Homo sapiens]	gi|4206088|gb|AAD11417.1|	98%	144	410
HDPRJ04	909040 8934	HMMER 2.1.1	PFAM: Zinc finger, C2H2 type	PF00096	52.4	192	263
		blastx.2	zinc finger protein ZNF132 [Homo sapiens]	gb|AAC50252.1|	40% 36% 46% 47%	12 12 335 335	377 377 553 553

538	335	47%
377	18	35%
377	12	34%
574	335	41%
377	12	34%
574	335	38%
377	12	31%
538	335	44%
377	12	28%
553	335	43%
377	12	30%
574	335	37%
377	12	31%
553	335	41%
377	12	31%
538	380	49%
556	326	36%
377	12	28%
371	39	30%
553	335	36%
571	380	35%
517	335	37%
377	12	27%
553	380	34%
538	380	33%
371	93	26%
194	51	33%
611	513	36%
611	570	50%
611	534	30%
611	573	69%

1508

ID	Clone	Seq	Method	Description	Accession	%		
						30%	534	611
						46%	573	611
						46%	573	611
						60%	582	611
						27%	513	599
						34%	303	365
						30%	513	611
						45%	292	354
						46%	573	611
						40%	327	371
						45%	544	576
						45%	544	576
HDPQI68	955006	8939	blastx.14	(AC007258) Putative ATPase [Arabidopsis thaliana]	gi|5080816|gb|AAD3 9325.1|AC007258_14	42%	200	490
						41%	530	646
						60%	523	582
						54%	155	187
HDPQF03	923120	8941	blastx.14	mitogen-activated protein kinase kinase (EC 2.7.-.-) 1	pir|JE0363|JE0363	85%	700	83
						54%	771	700
						100%	803	774
						66%	823	788
HDPLT62	973945	8959	HMMER 1.8	PFAM: Neurotransmitter-gated ion-channel	PF00065	102.12	417	746
			blastx	GABA receptor rho-3 subunit precursor [Rattus norvegicus]	dbj|BAA09322.1|	78%	414	797
						92%	262	411
HDPGS45	921381	8989	blastx.14	(AC004893) similar to NEDD-4 (KIA0093); similar to P46934 (PID:g1171682) [Homo sapiens]	gi|3694664|gb|AAC6 2434.1|	87%	366	226
HDPGS16	909833	8991	HMMER	PFAM: Protein kinase C	PF00433	57.51	287	445

HDPFZ70	709684	1.8 blastx.2	terminal domain (AJ245709) Akt-3 protein [Homo sapiens]	emb|CAB53537.1|	100% 100%	236 3	460 116
		HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	13.5	662	745
HDPFB03	936331	9015 blastx.14	(AF043726) PHD-finger protein [Mus musculus]	gi|4529845|gb|AAD2 1792.1|	38%	341	553
HDPDD12	970592	9017 blastx.14	(AF000998) CLOCK [Mus musculus]	gi|2114488|gb|AAC5 3200.1|	86%	284	370
HDPCM62	454740	9031 HMMER 1.8	PFAM: Laminin B (Domain IV)	PF00052	2.03	152	208
HCWKR86	784705	9089 HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	2.26	296	340
HCWFA35	908820	9114 HMMER 1.8	PFAM: DnaJ, prokaryotic heat shock protein	PF00226	116.61	80	274
		blastx.14	Curved DNA-binding protein cbpA [Escherichia coli]	gi|1651491|dbj|BAA3 6142.1|	98%	68	364
HCUGN19	716989	9181 HMMER 1.8	PFAM: Alcohol/other dehydrogenases, short chain type	PF00106	8.05	98	151
HCUGL20	668913	9184 HMMER 1.8	PFAM: Ank repeat	PF00023	7.2	190	261
HCFNG10	848225	9310 HMMER 1.8	PFAM: HMG (high mobility group) box	PF00505	6.03	305	376
HCFMZ90	922112	9315 HMMER 1.8	PFAM: Beta-ketoacyl synthases	PF00109	194.57	291	872
		blastx.14	(AF021234) 3-oxoacyl-[acyl-carrier-protein]-synthase [Neurospora	gi|2522482|gb|AAB8 1078.1|	57% 56% 41%	465 255 91	824 494 306

				crassa]				
HCFMW71	920506	9316	HMMER 2.1.1	PFAM: Isopentenyl-diphosphate delta-isomerase	PF01772	55.5	198	362
			blastx.14	homologue of yeast IPP isomerase [Homo sapiens]	gi|488750|emb|CAA34890.1|	42% 62%	198 95	407 199
HCFMJ37	955281	9321	blastx.2	(AF161445) HSPC327 [Homo sapiens]	gb|AAF29005.1|AF161445_1	89% 95% 100%	203 18 610	610 83 654
HCFCG23	850426	9337	HMMER 1.8	PFAM: Core histones H2A, H2B, H3 and H4	PF00125	10.89	179	244
HBTAE84	781946	9355	HMMER 1.8	PFAM: ATPases associated with various cellular activities (AAA)	PF00004	20.81	122	232
HBMTB85	923730	9390	blastx.14	(AF093403) 2-amino-3-ketobutyrate-coenzyme A ligase [Mus musculus]	gi|4093159|gb|AAC99774.1|	93% 100% 100%	3 261 217	182 317 258
HBMBF89	912789	9415	blastx.14	Rab24 protein [Mus musculus]	gi|438164|emb|CAA80472.1|	95% 89%	287 96	412 152
HBJNB52	726475	9423	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	3.77	193	252
HBJLR37	849633	9437	HMMER 2.1.1	PFAM: Ribosomal protein S26e	PF01283	232.2	2	325
HBJLR31	900883	9438	HMMER 2.1.1	PFAM: Zinc finger, C2H2 type	PF00096	90	798	866
			blastx.2	(AF185576) POZ/zinc finger transcription factor ODA-8 [Mus musculus]	gb|AAF03152.1|AF185576_1	68% 33% 36%	606 618 66	953 893 185
HBJJX53	835733	9452	HMMER	PFAM: IG	PF00047	9.2	157	207

			1.8	(immunoglobulin) superfamily				
HBJJT12	894345		blastx.2	(AF161081) activatory receptor PIRIIbeta [Homo sapiens]	gb|AAD52965.1|AF161081_1	90% 73%	157 215	216 283
		9453	HMMER 2.1.1	PFAM: Homeobox domain	PF00046	64	201	371
HBJJH60	930448	9461	HMMER 1.8	PFAM: Laminin B (Domain IV)	PF00052	1.57	181	204
HBJHX73	971377	9466	HMMER 1.8	PFAM: Laminin G domain	PF00054	13.48	931	1005
			blastx.14	contactin associated protein [Homo sapiens]	gi|1857708|gb|AAB48481.1|	50% 59% 33% 42% 43%	451 880 349 985 916	876 975 447 1041 963
HBJGT03	923800	9472	HMMER 1.8	PFAM: Cyclic nucleotide-binding domain	PF00027	8.96	41	100
HBJFC23	423885	9484	HMMER 2.1.1	PFAM: WD domain, G-beta repeat	PF00400	32.1	135	251
HBJAB15	660552	9522	HMMER 1.8	PFAM: Phorbol esters / diacylglycerol binding domain	PF00130	2.72	145	171
HBDAD64	864344	9524	HMMER 1.8	PFAM: Zinc-binding metalloprotease domain	PF00099	3.09	423	443
HBCCJ05	930956	9527	blastx.14	(AF164612) Gag protein [Homo sapiens]	gi|5802816|gb|AAD51794.1|AF164612_1	48% 47%	444 536	277 486
HBCBN51	952057	9532	HMMER 2.1.1	PFAM: alpha/beta hydrolase fold	PF00561	43.4	358	564
			blastx.14	similar to alpha/beta	gi|3878848|emb|CAB	40%	741	1007

hydrolase fold; cDNA EST 1	03219.1			58%	358	429
			57%	7	69
			62%	478	525
			45%	658	717
			54%	541	573

[053]   Table 2 further characterizes certain encoded polypeptides of the invention, by providing the results of comparisons to protein and protein family databases. The first column provides a unique clone identifier, "Clone ID NO:", corresponding to a cDNA clone disclosed in Table 1A. The second column provides the unique contig indentifier, "Contig ID:" which allows correlation with the information in Table 1A. The third column provides the sequence identifier, "SEQ ID NO:X", for the contig polynucleotide sequences. The fourth column provides the analysis method by which the homology/identity disclosed in the row was determined. The fifth column provides a description of PFam/NR hits having significant matches identified by each analysis. Column six provides the accession number of the PFam/NR hit disclosed in the fifth column. Column seven, "Score/Percent Identity", provides a quality score or the percent identity, of the hit disclosed in column five. Comparisons were made between polypeptides encoded by polynucleotides of the invention and a non-redundant protein database (herein referred to as "NR"), or a database of protein families (herein referred to as "PFam"), as described below.

[054]   The NR database, which comprises the NBRF PIR database, the NCBI GenPept database, and the SIB SwissProt and TrEMBL databases, was made non-redundant using the computer program nrdb2 (Warren Gish, Washington University in Saint Louis). Each of the polynucleotides shown in Table 1A, column 3 (e.g., SEQ ID NO:X or the 'Query' sequence) was used to search against the NR database. The computer program BLASTX was used to compare a 6-frame translation of the Query sequence to the NR database (for information about the BLASTX algorithm please see Altshul et al., J. Mol. Biol. 215:403-410 (1990), and Gish et al., Nat. Genet. 3:266-272 (1993)). A description of the sequence that is most similar to the Query sequence (the highest scoring 'Subject') is shown in column five of Table 2 and the database accession number for that sequence is provided in column six. The highest scoring 'Subject' is reported in Table 2 if (a) the estimated probability that the match occurred by chance alone is less than 1.0e-07, and (b) the match was not to a known repetitive element. BLASTX returns alignments of short polypeptide segments of the Query and Subject sequences which share a high degree of similarity; these segments are known as High-Scoring Segment Pairs or HSPs. Table 2 reports the degree of similarity between the Query and the Subject for each HSP as a percent identity in Column 7. The percent

identity is determined by dividing the number of exact matches between the two aligned sequences in the HSP, dividing by the number of Query amino acids in the HSP and multiplying by 100. The polynucleotides of SEQ ID NO:X which encode the polypeptide sequence that generates an HSP are delineated by columns 8 and 9 of Table 2.

[055]   The PFam database, PFam version 5.2, (Sonnhammer et al., Nucl. Acids Res., 26:320-322, (1998)) consists of a series of multiple sequence alignments; one alignment for each protein family. Each multiple sequence alignment is converted into a probability model called a Hidden Markov Model, or HMM, that represents the position-specific variation among the sequences that make up the multiple sequence alignment (see, e.g., R. Durbin et al., *Biological sequence analysis: probabilistic models of proteins and nucleic acids*, Cambridge University Press, 1998 for the theory of HMMs). The program HMMER version 1.8 (Sean Eddy, Washington University in Saint Louis) was used to compare the predicted protein sequence for each Query sequence (SEQ ID NO:Y in Table 1A) to each of the HMMs derived from PFam version 5.2. A HMM derived from PFam version 5.2 was said to be a significant match to a polypeptide of the invention if the score returned by HMMER 1.8 was greater than 0.8 times the HMMER 1.8 score obtained with the most distantly related known member of that protein family. The description of the PFam family which shares a significant match with a polypeptide of the invention is listed in column 5 of Table 2, and the database accession number of the PFam hit is provided in column 6. Column 7 provides the score returned by HMMER version 1.8 for the alignment. Columns 8 and 9 delineate the polynucleotides of SEQ ID NO:X which encode the polypeptide sequence which shows a significant match to a PFam protein family.

[056]   As mentioned, columns 8 and 9 in Table 2, "NT From" and "NT To", delineate the polynucleotides of "SEQ ID NO:X" that encode a polypeptide having a significant match to the PFam/NR database as disclosed in the fifth column of Table 2. In one embodiment, the invention provides a protein comprising, or alternatively consisting of, a polypeptide encoded by the polynucleotides of SEQ ID NO:X delineated in columns 8 and 9 of Table 2. Also provided are polynucleotides encoding such proteins, and the complementary strand thereto.

[057]   The nucleotide sequence SEQ ID NO:X and the translated SEQ ID NO:Y are sufficiently accurate and otherwise suitable for a variety of uses well known in the art and described further below. For instance, the nucleotide sequences of SEQ ID NO:X are useful for designing nucleic acid hybridization probes that will detect nucleic acid sequences contained in SEQ ID NO:X or the cDNA contained in Clone ID NO:Z. These probes will also hybridize to nucleic acid molecules in biological samples, thereby enabling immediate applications in chromosome mapping, linkage analysis, tissue identification and/or typing, and a variety of forensic and diagnostic methods of the invention. Similarly, polypeptides identified from SEQ ID NO:Y may be used to generate antibodies which bind specifically to these polypeptides, or fragments thereof, and/or to the polypeptides encoded by the cDNA clones identified in, for example, Table 1A.

[058]   Nevertheless, DNA sequences generated by sequencing reactions can contain sequencing errors. The errors exist as misidentified nucleotides, or as insertions or deletions of nucleotides in the generated DNA sequence. The erroneously inserted or deleted nucleotides cause frame shifts in the reading frames of the predicted amino acid sequence. In these cases, the predicted amino acid sequence diverges from the actual amino acid sequence, even though the generated DNA sequence may be greater than 99.9% identical to the actual DNA sequence (for example, one base insertion or deletion in an open reading frame of over 1000 bases).

[059]   Accordingly, for those applications requiring precision in the nucleotide sequence or the amino acid sequence, the present invention provides not only the generated nucleotide sequence identified as SEQ ID NO:X, and a predicted translated amino acid sequence identified as SEQ ID NO:Y, but also a sample of plasmid DNA containing cDNA Clone ID NO:Z (deposited with the ATCC on October 5, 2000, and receiving ATCC designation numbers PTA 2574 and PTA 2575; deposited with the ATCC on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2; and/or as set forth, for example, in Table 1A, 6 and 7). The nucleotide sequence of each deposited clone can readily be determined by sequencing the deposited clone in accordance with known methods. Further, techniques known in the art can be used to verify the nucleotide sequences of SEQ ID NO:X.

[060]   . The predicted amino acid sequence can then be verified from such deposits.
Moreover, the amino acid sequence of the protein encoded by a particular clone can also
be directly determined by peptide sequencing or by expressing the protein in a suitable
host cell containing the deposited human cDNA, collecting the protein, and determining
its sequence.

RACE Protocol For Recovery of Full-Length Genes

[061]   . Partial cDNA clones can be made full-length by utilizing the rapid
amplification of cDNA ends (RACE) procedure described in Frohman, M.A., et al., Proc.
Nat'l. Acad. Sci. USA, 85:8998-9002 (1988). A cDNA clone missing either the 5' or 3'
end can be reconstructed to include the absent base pairs extending to the translational
start or stop codon, respectively. In some cases, cDNAs are missing the start codon of
translation. The following briefly describes a modification of this original 5' RACE
procedure. Poly A+ or total RNA is reverse transcribed with Superscript II (Gibco/BRL)
and an antisense or complementary primer specific to the cDNA sequence. The primer is
removed from the reaction with a Microcon Concentrator (Amicon). The first-strand
cDNA is then tailed with dATP and terminal deoxynucleotide transferase (Gibco/BRL).
Thus, an anchor sequence is produced which is needed for PCR amplification. The
second strand is synthesized from the dA-tail,in PCR buffer, Taq DNA polymerase (Per-
kin-Elmer Cetus), an oligo-dT primer containing three adjacent restriction sites (XhoI,
SalI and ClaI) at the 5' end and a primer containing just these restriction sites. This
double-stranded cDNA is PCR amplified for 40 cycles with the same primers as well as a
nested cDNA-specific antisense primer. The PCR products are size-separated on an
ethidium bromide-agarose gel and the region of gel containing cDNA products the
predicted size of missing protein-coding DNA is removed. cDNA is purified from the -
agarose with the Magic PCR Prep kit (Promega), restriction digested with XhoI or SalI,
and ligated to a plasmid such as pBluescript SKII (Stratagene) at XhoI and EcoRV sites.
This DNA is transformed into bacteria and the plasmid clones sequenced to identify the
correct protein-coding inserts. Correct 5' ends are confirmed by comparing this sequence
with the putatively identified homologue and overlap with the partial cDNA clone.
Similar methods known in the art and/or commercial kits are used to amplify and recover
3' ends.

[062]   Several quality-controlled kits are commercially available for purchase. Similar reagents and methods to those above are supplied in kit form from Gibco/BRL for both 5' and 3' RACE for recovery of full length genes. A second kit is available from Clontech which is a modification of a related technique, SLIC (single-stranded ligation to single-stranded cDNA), developed by Dumas et al., Nucleic Acids Res., 19:5227-32 (1991). The major differences in procedure are that the RNA is alkaline hydrolyzed after reverse transcription and RNA ligase is used to join a restriction site-containing anchor primer to the first-strand cDNA. This obviates the necessity for the dA-tailing reaction which results in a polyT stretch that is difficult to sequence past.

[063]   An alternative to generating 5' or 3' cDNA from RNA is to use cDNA library double-stranded DNA. An asymmetric PCR-amplified antisense cDNA strand is synthesized with an antisense cDNA-specific primer and a plasmid-anchored primer. These primers are removed and a symmetric PCR reaction is performed with a nested cDNA-specific antisense primer and the plasmid-anchored primer.

RNA Ligase Protocol For Generating The 5' or 3' End Sequences To Obtain Full Length Genes

[064]   Once a gene of interest is identified, several methods are available for the identification of the 5' or 3' portions of the gene which may not be present in the original cDNA plasmid. These methods include, but are not limited to, filter probing, clone enrichment using specific probes and protocols similar and identical to 5' and 3' RACE. While the full length gene may be present in the library and can be identified by probing, a useful method for generating the 5' or 3' end is to use the existing sequence information from the original cDNA to generate the missing information. A method similar to 5' RACE is available for generating the missing 5' end of a desired full-length gene. (This method was published by Fromont-Racine et al., Nucleic Acids Res., 21(7):1683-1684 (1993)). Briefly, a specific RNA oligonucleotide is ligated to the 5' ends of a population of RNA presumably containing full-length gene RNA transcript. A primer set containing a primer specific to the ligated RNA oligonucleotide and a primer specific to a known sequence of the gene of interest, is used to PCR amplify the 5' portion of the desired full length gene which may then be sequenced and used to generate the full length gene. This method starts with total RNA isolated from the desired source, poly A RNA may be

used but is not a prerequisite for this procedure. The RNA preparation may then be treated with phosphatase if necessary to eliminate 5' phosphate groups on degraded or damaged RNA which may interfere with the later RNA ligase step. The phosphatase, if used, is then inactivated and the RNA is treated with tobacco acid pyrophosphatase in order to remove the cap structure present at the 5' ends of messenger RNAs. This reaction leaves a 5' phosphate group at the 5' end of the cap cleaved RNA which can then be ligated to an RNA oligonucleotide using T4 RNA ligase. This modified RNA preparation can then be used as a template for first strand cDNA synthesis using a gene specific oligonucleotide. The first strand synthesis reaction can then be used as a template for PCR amplification of the desired 5' end using a primer specific to the ligated RNA oligonucleotide and a primer specific to the known sequence of the immune/hematopoietic antigen of interest. The resultant product is then sequenced and analyzed to confirm that the 5' end sequence belongs to the relevant immune/hematopoietic antigen.

[065]   The present invention also relates to vectors or plasmids which include such DNA sequences, as well as the use of the DNA sequences. The material deposited with the ATCC (deposited with the ATCC on October 5, 2000, and receiving ATCC designation numbers PTA 2574 and PTA 2575; deposited with the ATCC on January 5, 2001, having the depositor reference numbers TS-1, TS-2, AC-1, and AC-2; and/or as set forth, for example, in Table 1A, 6 and 7) is a mixture of cDNA clones derived from a variety of human tissue and cloned in either a plasmid vector or a phage vector, as shown, for example, in Table 7. These deposits are referred to as "the deposits" herein. The tissues from which some of the clones were derived are listed in Table 7, and the vector in which the corresponding cDNA is contained is also indicated in Table 7. The deposited material includes cDNA clones corresponding to SEQ ID NO:X described, for example, in Table 1A (Clone ID NO:Z). A clone which is isolatable from the ATCC Deposits by use of a sequence listed as SEQ ID NO:X, may include the entire coding region of a human gene or in other cases such clone may include a substantial portion of the coding region of a human gene. Furthermore, although the sequence listing may in some instances list only a portion of the DNA sequence in a clone included in the ATCC Deposits, it is well within the ability of one skilled in the art to sequence the DNA included in a clone contained in the ATCC Deposits by use of a sequence (or portion

thereof) described in, for example Tables 1A or 2 by procedures hereinafter further described, and others apparent to those skilled in the art.

[066]   Also provided in Table 7 is the name of the vector which contains the cDNA clone. Each vector is routinely used in the art. The following additional information is provided for convenience.

[067]   Vectors Lambda Zap (U.S. Patent Nos. 5,128,256 and 5,286,636), Uni-Zap XR (U.S. Patent Nos. 5,128,256 and 5,286,636), Zap Express (U.S. Patent Nos. 5,128,256 and 5,286,636), pBluescript (pBS) (Short, J. M. et al., *Nucleic Acids Res. 16:*7583-7600 (1988); Alting-Mees, M. A. and Short, J. M., *Nucleic Acids Res. 17:*9494 (1989)) and pBK (Alting-Mees, M. A. et al., *Strategies 5:*58-61 (1992)) are commercially available from Stratagene Cloning Systems, Inc., 11011 N. Torrey Pines Road, La Jolla, CA, 92037. pBS contains an ampicillin resistance gene and pBK contains a neomycin resistance gene. Phagemid pBS may be excised from the Lambda Zap and Uni-Zap XR vectors, and phagemid pBK may be excised from the Zap Express vector. Both phagemids may be transformed into *E. coli* strain XL-1 Blue, also available from Stratagene.

[068]   Vectors pSport1, pCMVSport 1.0, pCMVSport 2.0 and pCMVSport 3.0, were obtained from Life Technologies, Inc., P. O. Box 6009, Gaithersburg, MD 20897. All Sport vectors contain an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, also available from Life Technologies. See, for instance, Gruber, C. E., et al., *Focus 15:*59- (1993). Vector lafmid BA (Bento Soares, Columbia University, New York, NY) contains an ampicillin resistance gene and can be transformed into *E. coli* strain XL-1 Blue. Vector pCR®2.I, which is available from Invitrogen, 1600 Faraday Avenue, Carlsbad, CA 92008, contains an ampicillin resistance gene and may be transformed into *E. coli* strain DH10B, available from Life Technologies. See, for instance, Clark, J. M., *Nuc. Acids Res.* 16:9677-9686 (1988) and Mead, D. et al., *Bio/Technology* 9: (1991).

[069]   The present invention also relates to the genes corresponding to SEQ ID NO:X, SEQ ID NO:Y, and/or the deposited clone (Clone ID NO:Z). The corresponding gene can be isolated in accordance with known methods using the sequence information disclosed herein. Such methods include preparing probes or primers from the disclosed

sequence and identifying or amplifying the corresponding gene from appropriate sources of genomic material.

[070]   Also provided in the present invention are allelic variants, orthologs, and/or species homologs. Procedures known in the art can be used to obtain full-length genes, allelic variants, splice variants, full-length coding portions, orthologs, and/or species homologs of immune/hematopoietic associated genes corresponding to SEQ ID NO:X or the complement thereof, polypeptides encoded by SEQ ID NO:X or the complement thereof, and/or the cDNA contained in Clone ID NO:Z, using information from the sequences disclosed herein or the clones deposited with the ATCC. For example, allelic variants and/or species homologs may be isolated and identified by making suitable probes or primers from the sequences provided herein and screening a suitable nucleic acid source for allelic variants and/or the desired homologue.

[071]   The polypeptides of the invention can be prepared in any suitable manner. Such polypeptides include isolated naturally occurring polypeptides, recombinantly produced polypeptides, synthetically produced polypeptides, or polypeptides produced by a combination of these methods. Means for preparing such polypeptides are well understood in the art.

[072]   The polypeptides may be in the form of the secreted protein, including the mature form, or may be a part of a larger protein, such as a fusion protein (see below). It is often advantageous to include an additional amino acid sequence which contains secretory or leader sequences, pro-sequences, sequences which aid in purification, such as multiple histidine residues, or an additional sequence for stability during recombinant production.

[073]   The polypeptides of the present invention are preferably provided in an isolated form, and preferably are substantially purified. A recombinantly produced version of a polypeptide, including the secreted polypeptide, can be substantially purified using techniques described herein or otherwise known in the art, such as, for example, by the one-step method described in Smith and Johnson, Gene 67:31-40 (1988). Polypeptides of the invention also can be purified from natural, synthetic or recombinant sources using techniques described herein or otherwise known in the art, such as, for example, antibodies of the invention raised against the immune/hematopoietic polypeptides of the present invention in methods which are well known in the art.

[074]   The present invention provides a polynucleotide comprising, or alternatively consisting of, the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA sequence contained in Clone ID NO:Z. The present invention also provides a polypeptide comprising, or alternatively, consisting of, the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X or a complement thereof, a polypeptide encoded by the cDNA contained in Clone ID NO:Z, and/or the polypeptide sequence encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B. Polynucleotides encoding a polypeptide comprising, or alternatively consisting of the polypeptide sequence of SEQ ID NO:Y, a polypeptide encoded by SEQ ID NO:X, a polypeptide encoded by the cDNA contained in Clone ID NO:Z and/or a polypeptide sequence encoded by a nucleotide sequence in SEQ ID NO:B as defined in column 6 of Table 1B are also encompassed by the invention. The present invention further encompasses a polynucleotide comprising, or alternatively consisting of, the complement of the nucleic acid sequence of SEQ ID NO:X, a nucleic acid sequence encoding a polypeptide encoded by the complement of the nucleic acid sequence of SEQ ID NO:X, and/or the cDNA contained in Clone ID NO:Z.

[075]   Moreover, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in Table 1B column 6, or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in Table 1B column 6, or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in Table 1B, column 6, and have a nucleic

acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[076]   Further, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1), or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same Clone ID NO:Z (see Table 1B, column 1) and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[077]   Further, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2), or any combination thereof. Additional, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2), or any combination thereof. In further embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in column 6 of Table 1B which correspond to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2) and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (See Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides and polypeptides are also encompassed by the invention.

[078]   Moreover, representative examples of polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in the same row of Table 1B column 6, or any combination thereof. Additional, representative examples of polynucleotides of the

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invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1B column 6, or any combination thereof. In preferred embodiments, the polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the complementary strand(s) of the sequences delineated in the same row of Table 1B column 6, wherein sequentially delineated sequences in the table (i.e. corresponding to those exons located closest to each other) are directly contiguous in a 5' to 3' orientation. In further embodiments, above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that of the BAC fragment having the sequence disclosed in SEQ ID NO:B (see Table 1B, column 5). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that published for the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). In additional embodiments, the above-described polynucleotides of the invention comprise, or alternatively consist of, sequences delineated in the same row of Table 1B, column 6, and have a nucleic acid sequence which is different from that contained in the BAC clone identified as BAC ID NO:A (see Table 1B, column 4). Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[079]   In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B, and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1B, column 2) or fragments or variants thereof. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[080]   In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in column 6 of Table 1B which correspond to

the same Clone ID NO:Z (see Table 1B, column 1), and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or fragments or variants thereof. In preferred embodiments, the delineated sequence(s) and polynucleotide sequence of SEQ ID NO:X correspond to the same Clone ID NO:Z. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[081]   In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, one, two, three, four, five, six, seven, eight, nine, ten, or more of the sequences delineated in the same row of column 6 of Table 1B, and the polynucleotide sequence of SEQ ID NO:X (e.g., as defined in Table 1A or 1B) or fragments or variants thereof. In preferred embodiments, the delineated sequence(s) and polynucleotide sequence of SEQ ID NO:X correspond to the same row of column 6 of Table 1B. Polypeptides encoded by these polynucleotides, other polynucleotides that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention.

[082]   In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of the sequence of SEQ ID NO:X are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids that encode these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[083]   In additional specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X are directly contiguous Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower

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stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[084]   In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1B are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[085]   In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of a fragment or variant of the sequence of SEQ ID NO:X and the 5' 10 polynucleotides of the sequence of one of the sequences delineated in column 6 of Table 1B are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides, are also encompassed by the invention.

[086]   In further specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10

polynucleotides of another sequence in column 6 are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[087]   In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 corresponding to the same Clone ID NO:Z (see Table 1B, column 1) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[088]   In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of, a polynucleotide sequence in which the 3' 10 polynucleotides of one sequence in column 6 corresponding to the same contig sequence identifer SEQ ID NO:X (see Table 1B, column 2) are directly contiguous. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[089]   In specific embodiments, polynucleotides of the invention comprise, or alternatively consist of a polynucleotide sequence in which the 3' 10 polynucleotides of

one of the sequences delineated in column 6 of Table 1B and the 5' 10 polynucleotides of another sequence in column 6 corresponding to the same row are directly contiguous. In preferred embodiments, the 3' 10 polynucleotides of one of the sequences delineated in column 6 of Table 1B is directly contiguous with the 5' 10 polynucleotides of the next sequential exon delineated in Table 1B, column 6. Nucleic acids which hybridize to the complement of these 20 contiguous polynucleotides under stringent hybridization conditions or alternatively, under lower stringency conditions, are also encompassed by the invention. Polypeptides encoded by these polynucleotides and/or nucleic acids, other polynucleotides and/or nucleic acids encoding these polypeptides, and antibodies that bind these polypeptides are also encompassed by the invention. Additionally, fragments and variants of the above-described polynucleotides, nucleic acids, and polypeptides are also encompassed by the invention.

[090]   Many polynucleotide sequences, such as EST sequences, are publicly available and accessible through sequence databases and may have been publicly available prior to conception of the present invention. Preferably, such related polynucleotides are specifically excluded from the scope of the present invention. Accordingly, for each contig sequence (SEQ ID NO:X) listed in the third column of Table 1A, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b, where a is any integer between 1 and the final nucleotide minus 15 of SEQ ID NO:X, b is an integer of 15 to the final nucleotide of SEQ ID NO:X, where both a and b correspond to the positions of nucleotide residues shown in SEQ ID NO:X, and where b is greater than or equal to a + 14. More specifically, preferably excluded are one or more polynucleotides comprising a nucleotide sequence described by the general formula of a-b; where a and b are integers as defined in columns 4 and 5, respectively, of Table 3. In specific embodiments, the polynucleotides of the invention do not consist of at least one, two, three, four, five, ten, or more of the specific polynucleotide sequences referenced by the Genbank Accession No. as disclosed in column 6 of Table 3 (including for example, published sequence in connection with a particular BAC clone). In further embodiments, preferably excluded from the invention are the specific polynucleotide sequence(s) contained in the clones corresponding to at least one, two, three, four, five, ten; or more of the available material having the accession numbers identified in the sixth column of this Table (including for

example, the actual sequence contained in an identified BAC clone). In no way is this listing meant to encompass all of the sequences which may be excluded by the general formula, it is just a representative example. All references available through these accessions are hereby incorporated by reference in their entirety.

TABLE 3

Clone ID NO:Z	SEQ ID NO:X	Contig ID:	EST Disclaimer Range of a	EST Disclaimer Range of b	Accession #'s
HAMHB21	11	961376	1-3744	15-3758	AI760827, AW408019, AI253155, AI349366, AI356482, AA814034, AW075920, AW407984, AI760691, AA251937, AI766650, AA352825, AA243541, AI934100, AA352840, H72208, H72106, AW193021, AL035530, and AL035530.
HASAX16	12	573692	1-305	15-319	AL356513, AL356513, AL356513, AL358796, and AL358796.
HASAY74	13	526312	1-375	15-389	AC006479, AC006479, AC006479, and AC006479.
HASAY89	14	958768	1-849	15-863	AI240823, AC012580, AC012580, AL133502, and AL133502.
HASAY94	15	521835	1-89	15-103	AL133216, AC024998, AC024998, AL365438, AL390122, AL133216, AL133216, AL133216, AC022702, AC022702, AC025796, AF198096, and AF198096.
HBCAL36	16	931477	1-553	15-567	AI908374.
HBCAL39	17	964871	1-587	15-601	AL117337, AF205588, AL022345, AL022345, AL161931, AL161931, AL354975, AL354975, AL355583, AL355583, AL023808, AL023808, AF205588, AF205588, AL117337, AL117337, and AL117337.
HBCAM74	18	864366	1-437	15-451	AA642815.
HBCAR79	19	573989	1-415	15-429	AC021215.
HBCAS69	20	669802	1-274	15-288	
HBCAT17	21	503573	1-385	15-399	AI150061, AA382210, AC011448, and AC011448.
HBCAT63	22	573993	1-224	15-238	AI114447, AL133243, AL133243, AL133243, and AL133243.
HBCBM52	23	932514	1-657	15-671	AA312172.
HBCBX12	24	861018	1-219	15-233	AB023431, AC005954, AC005954, AC005954, and AC068475.
HBCBZ05	25	922800	1-713	15-727	
HBDAC79	26	935414	1-612	15-626	AA904376, H23157, AA663798, AA359944, AA448036, R61429, H09004, AA309011, AF126245, AP001785, and AP001785.
HBDAD04	27	614849	1-375	15-389	AI057188, AW273323, C15735, AI932257, AI028587, AI940493, AW043720, AW021811, AA858079, AW197210, AI791278, AA508647, C15853, AA181800, AW043729, AW008982, AI918922, AI985340, AA031428, AA282285, AC007392, Z82198, AL031121, AL121840, L24095, AC004882, AC005529, AC002070, AC008984, AL132985, AL049781, Z72006, AC005881, AL079305, AP000263, AC005888, AC003080, AC004935, AL035667, AC005610, AP000036, AC005186, AC004842, AL035696, AC003661, AC004503, AC009263, AL023581, AC003009, U41096, AL021368, AP000567, AC044933, AC003975, AP000494, AL008638, AF015262, AL049833, AL034350, AL031010, AJ229043, AP001069, AC006288, AL049561, AL024507, AC005701, AP000100, AC005792, AP000566, AL023283, AC011594, AC006377,

					AL031684, AC008014, AP001038, AF064864, AP001037, AF165176, AC005993, AP001043, AL078602, AC007073, AL133512, AC005367, AC007751, AC004850, AC006928, AC009028, Z83823, AC003089, AL008715, AC007372, AL049837, AL078612, AF124730, AC006032, AF207955, AC008154, AL021395, AC005076, AC005886, AC008072, AC004783, AC004002, AC006256, AL133485, AC006353, AC002485, AF205890, AC004106, AC004169, Z74696, AC006263, AC006384, AC006972, AL031767, AC006384, AC004158, and Z95152.
HBDAF51	28	725481	1 - 496	15 - 510	N47629.
HBDAF61	29	864338	1 - 794	15 - 808	AC003963.
HBJAB59	30	557972	1 - 425	15 - 439	
HBJAC23	31	529753	1 - 234	15 - 248	AA313748, AC008013, AC006432, and Z61963.
HBJAG72	32	722723	1 - 504	15 - 518	
HBJAI91	33	677397	1 - 307	15 - 321	
HBJAT75	34	953840	1 - 301	15 - 315	AL133163.
HBJAJ85	35	675904	1 - 105	15 - 119	AC002450.
HBJAV57	36	527998	1 - 387	15 - 401	AC004976.
HBJAY76	37	527908	1 - 286	15 - 300	
HBJAY91	38	828026	1 - 276	15 - 290	
HBJBM14	39	781398	1 - 306	15 - 320	
HBJBR94	40	527903	1 - 331	15 - 345	
HBJBU55	41	527112	1 - 349	15 - 363	
HBJCD43	42	714390	1 - 187	15 - 201	
HBJCD88	43	697628	1 - 446	15 - 460	
HBJCJ68	44	823468	1 - 216	15 - 230	
HBJCO81	45	527711	1 - 290	15 - 304	
HBJCR51	46	847946	1 - 327	15 - 341	AA766781, and AA352756.
HBJCR90	47	527702	1 - 318	15 - 332	
HBJDL73	48	531104	1 - 218	15 - 232	AL117593, and AC007401.
HBJDN14	49	856216	1 - 401	15 - 415	AA249870, and AF205935.
HBJDO70	50	752830	1 - 523	15 - 537	
HBJDP32	51	573846	1 - 263	15 - 277	
HBJDP41	52	494836	1 - 374	15 - 388	
HBJDQ75	53	847935	1 - 516	15 - 530	
HBJDT05	54	932302	1 - 86	15 - 100	
HBJDT47	55	573728	1 - 214	15 - 228	
HBJDW23	56	919383	1 - 447	15 - 461	AL078584.
HBJDW36	57	573847	1 - 498	15 - 512	

HBJDX18	58	795732	1-544	15-558	T94994, and AC007546.
HBJDX51	59	716395	1-391	15-405	
HBJEA22	60	674872	1-312	15-326	
HBJEA25	61	589249	1-498	15-512	AA912740, AA48877l; T99916, AA370641, AA376428, AA488991, AA091598, D81695, AA305205, AA053093, AI082436, AA779219, AI041880, AI652229, AI216294, AL037847, AA319426, AA224141, AW392797, AI240672, AA160646, AW403677, AL037869, AI240700, AA314410, U91327, AF026293, and AF026166.
HBJEA44	62	973376	1-447	15-461	
HBJEA65	63	934994	1-543	15-557	T86098, and AL031589.
HBJEA90	64	895961	1-739	15-753	AA888592, AA489084, D80258, D80014, T11417, D59503, D81111, D58101, D80064, C14227, D58246, C06015, C14407, AI557751, AI535686, AI557774, AA514184, T03048, D51079, D80227, AW377671, C14298, D80269, D59695, D80168, D59467, AI535959, D50979, F13647, C14014, D80133, AA809122, D51213, D80188, D80522, D80043, D80378, D45273, D59502, D52291, D80195, AA305578, C03092, C15076, D80164, D59275, D80038, C14389, C14331, D80247, D80157, D81026, D51799, D80439, D51103, H67854, D80251, D58283, D80949, AA514188, D59859, D59610, D80022, D80166, D51423, D59619, D80210, D80391, D80240, D80253, D80045, C14344, D59787, D50995, AA305409, D59551, D81030, D80212, D80268, D80366, AW367950, D80196, D51022, H67866, D80219, AW178893, D57483, D80193, D59927, D80248, D59889, D51759, D80302, AW360834, D51060, D59317, D80241, D80024, AA514186, D59474, D45260, D60214, C14973, AI525237, AW177440, D51221, T03116, D59653, C14429, AW378539, AI525917, AW360817, C75259, AI525920, D60010, C14077, AW177505, AW375405, D59373, C14957, AI525227, AI525242, AW360811, C14046, C16955, C05695, AW178907, AI525923, AW178908, D80228, AI525235, T02868, AW366296, AW178906, AW360844, Z33452, AA285331, T03269, AI525912, AW179328, T48593, Z21582, AW375406, AW378534, AI525925, AI525215, AW178762, AW179332, AW377672, AW360841, AW179023, AW178905, AW177731, AW378528, AW377676, AW178914, C04682, AW378533, AW378532, AW352120, C05763, AW352117, T02974, AW377676, AW179019, AW178774, AW360855, AW178774, AW176467, N66429, D51053, AW179020, AW352171, AW178980, AW352170, D51250, AW177733, AW378525, AW179024, AW352163, AI525222, AW179018, C13958, D31458, AW178781, AI535961, AI525928, AW378543, AW177728, AW369651, AW177456, AW178911, AW378540, Z30160, AW178775, AA305720, AW177508, AW179009, AW178754, AW352158, AI525228, H67858, AA305720, AW177734, AW177497, AW179012, AI910186, AW177722, AI525216, AI525238, AI535665, AI525903, AB002449, AR016808, A82595, A84916, AB028859, AR060385, AJ132110, AR008278, AF058696, A62300, A62298, AR018138, I14842, AR054175, I50126, I50132, I50128, I50133, AR008281, X64588, X68127, A70867, AR062872, I82448, I79511, AR016514, X67155, Y17187, AR060138, A45456, Y17188, A94995, D26022, A26615, AR052274, A43192, Y12724, A63261, A43190,

HBJED66	65	787251	1 - 161	15 - 175	AR038669, A25909, A64136, A68321, AR066488, AR008443, Y09669, AR066487, A67220, D89785, A78862, D34614, A30438, AF123263, AR016691, AR016690, U46128, D88547, AR032065, AJ000347, D50010, AR008408, and AR060133.
HBJEE29	66	888625	1 - 511	15 - 525	AA360671, and AL035652.
HBJEE30	67	531103	1 - 413	15 - 427	AA806058.
HBJEH70	68	971161	1 - 65	15 - 79	
HBJEI42	69	669495	1 - 410	15 - 424	
HBJEJ21	70	671201	1 - 291	15 - 305	
HBJEJ29	71	693490	1 - 411	15 - 425	AC002126.
HBJEJ83	72	847920	1 - 414	15 - 428	AA760836, and AW085046.
HBJEO29	73	693491	1 - 323	15 - 337	
HBJEP15	74	847843	1 - 363	15 - 377	AC005580.
HBJEP73	75	764573	1 - 320	15 - 334	
HBJER19	76	953804	1 - 249	15 - 263	
HBJES44	77	715846	1 - 608	15 - 622	W72060, W76253, AW291566, AI360806, AI871850, and AF086367.
HBJET76	78	527553	1 - 648	15 - 662	AA625290, and AI394096.
HBJET94	79	794343	1 - 258	15 - 272	AL133485.
HBJEW15	80	507534	1 - 650	15 - 664	
HBJEZ09	81	573781	1 - 276	15 - 290	
HBJEZ16	82	421567	1 - 350	15 - 364	
HBJEZ39	83	690479	1 - 320	15 - 334	T11506, AA490380, AA280331, AA233664, AA233243, AA232989, N49790, AI886810, AI660641, AI707610, AA243850, AA001344, AI814340, AI718247, AA897648, AA714834, AI499266, AI190321, AI832024, AI718088, AI718693, AI014672, AI091271, AW169874, AI078790, N52465, AI245448, AA811481, AI057060, AA744777, AA642417, N49687, AA233550, and AI222478.
HBJFC51	84	725818	1 - 484	15 - 498	AA303049, AA482928, F30650, AI915081, AA349606, AA832175, AW104788, AI962030, AA237098, H29914, AL119555, AA599423, AA878431, AI452836, AA613624, AW117860, M62259, AI659023, AA719523, AA632479, AA643770, AA632556, AII44081, AW302711, AW301906, AW302753, AA127426, AA493503, AA173342, AA664604, H69515, AI053560, N90460, AA837000, AA481887, AA804187, AA720732, H86106, AA394066, AI865807, AI701959, AA467988, AA586656, AA468051, AA992877, AA911515, AA515728, AW068316, AW188742, AI369580, AI354847, AA323085, C16659, AA995827, F24728, R98218, AA302817, AI653776, AA492313, AC003007, AC005632, AL133163, AC007371, AC007011, AL121754, AC005011, AF001549, Z98304, AC004383, AC006312, AC005696, AC005488, AC005412, AC006088, AL049778, AC005682, AC005544, AL021937, AC006515, AL049636, AC004887,

HBJFJ53	85	573806	1 - 412	15 - 426	AL034417, AC004796, AL121757, AL031587, AC006141; AL049829, AC002492, AL022345, AC012384, AC005484, AC005520, Z83844, AR036572, U91328, AC002302, AC004050, Z95114, AF001550, AL035079, AC004682, AL034421, AC005041, AL109627, AC002531, AC006432, AC002310, Z95115, AC004148, AC004671, AL121603, AL109952, Z92542, AJ010598, AC005808, AL022726, AC005300, AC005300, AC005874, AF134471, AC006117, AL049776, AC005089, AC004686, AC004941, AC005037, AC005049, M63796, AF050154, S42653, AC005015, AC003043, AL033527, AC006254, AC016830, Z77249, Z95116, AC005291, AL031672, AC006530, Z86090, AC002351, AL031577, AL096712, AC004106, AC004622, AC006077, AC005902, AC006111, AC006115, AF111169, AC005881, AC003109, AC016027, AC005088, AC006208, AC007546, AC003681, Y14768, AC007055, AC005839, AL078639, AL080243, AC010197, AC006013, AP000505, AC006112, AL020993, AC006387, AC000082, AL031005, AL035683, AL049589, Z98742, AC006241, Y18000, AC005932, AC007676, AF053356, AL022238, AC007314, AL031680, AL022328, AL034429, AC006101, AC008372, AC005377, U95742, AC005231, AL121652, AC006480, AL031118, AC002365, Z83840, AC010170, AC007421, AF042090, AC006454, AL021940, AC009247, AC002119, AL022336, AC004815, AC007386, AC004531, Z97055, AL022302, AL022322, AP000547, AC006035, AL035405, AC004042, AC007216, L44140, AL031281, AJ246003, AL049874, AC007637, AC000120, Z77852, AL035530, Z83826, Z99128, AL096702, AC005305, AL121655, AC006441, AC002425, AL049843, AL031666, AL049872, AF134726, AC005562, AC007461, AC000353, AP000503, AL079342, AC004491, AC004797, Z97054, AL022320, AC005046, AC002553, AF196970, AC006121, AC005754, AC006486, AC004859, AC009069, AC005746, AL008730, AP000251, AL049697, AC006449, AC007993, Z81369, AC003093, AL021154, AF207550, AC012331, AL034451, AP000030, AP000134, AC005971, AC006011, AL133246, AL132985, AC000097, AC007878, AC006547, AC006539, AP000558, AC005104, AC008044, AC004837, AC005288, AC006014, AC006547, AC006360, AC003950, AC007406, AL021707, AC007773, AL121658, AB018307, AC004883, AL033458, AL033392, AC004254, AL034548, AC003010, Z75888, and AC004611.
HBJFK55	86	625315	1 - 359	15 - 373	R94150, and T86024.
HBJFL49	87	573970	1 - 417	15 - 431	
HBJFP58	88	738298	1 - 92	15 - 106	
HBJFV07	89	953795	1 - 122	15 - 136	
HBJFV59	90	573747	1 - 469	15 - 483	AI762503, AI076416, AI243035, AI077308, AA700764, AA838319, AA868956, and AA187478.
HBJFW10	91	878778	1 - 405	15 - 419	AL133241, and U80460.
HBJFW19	92	573765	1 - 339	15 - 353	
HBJFW20	93	573755	1 - 315	15 - 329	AC004692, and AL031684.
HBJFW50	94	571351	1 - 276	15 - 290	

HBJFW55	95	526682	1 - 259	15 - 273	AA283995, AI478915, AA283951, AI817564, AA283760, AA287165, AA286859, AA789104, and AC007068.
HBJFW68	96	573766	1 - 172	15 - 186	
HBJFW78	97	571347	1 - 380	15 - 394	
HBJFX57	98	573760	1 - 305	15 - 319	AL078584.
HBJFX81	99	529843	1 - 227	15 - 241	
HBJFY40	100	574095	1 - 450	15 - 464	
HBJFZ21	101	671191	1 - 235	15 - 249	
HBJFZ40	102	526679	1 - 437	15 - 451	
HBJFZ56	103	507530	1 - 329	15 - 343	
HBJFZ82	104	799685	1 - 325	15 - 339	AW005281, and AA558937.
HBJGR59	105	739095	1 - 551	15 - 565	
HBJGT72	106	957668	1 - 354	15 - 368	R50003, and R50021.
HBJGT92	107	919507	1 - 722	15 - 736	T84928.
HBJGU70	108	864063	1 - 474	15 - 488	
HBJGU78	109	920821	1 - 568	15 - 582	AI553853, AW079768, AI683616, AI536991, AI254730, AI356243, AI630887, AI829696, AI889334, AI344419, AW411027, AI391729, AI926804, AI282481, and AC004031.
HBJGV17	110	662725	1 - 475	15 - 489	
HBJGV22	111	613781	1 - 280	15 - 294	AA382068, D54550, H62431, H13929, AW176445, H80318, AW374298, AA418306, D54133, W01672, AL048935, AW374306, AW374317, W27179, AW176444, AW374310, W28706, AA234625, AR064426, AB004788, AF079221, AF067396, and AL132665.
HBJGV32	112	699075	1 - 377	15 - 391	
HBJHG04	113	836184	1 - 419	15 - 433	
HBJHG76	114	970826	1 - 476	15 - 490	AC008282.
HBJHI28	115	686278	1 - 314	15 - 328	M62004, and AL035410.
HBJHI44	116	621723	1 - 359	15 - 373	AA207226, AL121444, AA019182, AA333455, W96231, AA331923, H08904, AA446987, and AW167577.
HBJHM50	117	724183	1 - 336	15 - 350	
HBJHM57	118	973257	1 - 419	15 - 433	
HBJHM76	119	715512	1 - 324	15 - 338	
HBJHN52	120	726570	1 - 334	15 - 348	
HBJHO11	121	964943	1 - 522	15 - 536	AW006288, AA977097, AI368637, AW197236, AI341105, AI650705, AI816278, AI590528, and R44511.
HBJHO60	122	975186	1 - 395	15 - 409	AL121820.
HBJHR56	123	686717	1 - 592	15 - 606	AA077952, AA482768, R96657, H79151, AW103981, AA169194, AA325699, M78177, AA626678, T69877, AA569387, AA332991, AA323749, AA326441, AA975645, AA357937,

HBJHT32	124	488736	1-321	15-335	AI434706, AA491762, AA56831, N29941, AW419262, H92005, AI000800, AA847509, AA973803, W95976, AA650623, AA862181, W95841, N87420, AA523837, AA693370, AA446657, AA630362, R38154, AL120483, AL138455, AI865400, AI184354, AL110444, AL039958, AI799642, N84245, R67504, Z98473, AW152064, AI051230, AA377730, AA780929, AI056964, AW338754, AA563818, AA587604, AI348611, N22424, AA704391, AI270343, N70103, N70020, AF041058, AC005745, AC007666, AF054569, AF042835, AF045999, AC007999, AC004938, AC004098, U66059, U07563, AC004821, AC002073, AC003101, AC004447, AL078475, AF009660, AC005166, AC006538, AC002286, AC005781, AC004854, AC005523, AC005940, AC002550, AP000961, AJ003147, AC000094, AC005838, AC000085, AC005023, AP000553, Z69366, AC007106, AC005815, AC016025, AF010238, AC007845, AC004972, Z49237, AP000404, AL021393, AC005409, AC003041, AL031680, Z93241, AL034402, Z84572, AC005632, U67825, U67826, AC004253, AC005414, AP000555, AC002347, Z82198, U67829, AL031774, Z60740, AC005031, AF044101, AP000350, AP000111, AP000043, AC001050, AC016026, AC006141, U80017, AC001228, AC010197, AC001531, AC007226, AC005015, AC010209, AC004895, AC006312, AL031283, AC005081, AC005291, AC004812, AF129107, AL096761, AL023579, AF051934, AL024507, AC008170, AJ229042, AC005531, AC007878, AC009516, AL035681, AC006128, AL035417, AF207550, AC003998, AL121653, AP000705, AC006581, AC006045, AL035249, AC002985, AC010077, AF091512, AC003086, AC002429, AL008582, and AC000385.
HBJHV93	125	881606	1-348	15-362	H68571, AA641767, and AA223840.
HBJHX08	126	958970	1-636	15-650	AL117342.
HBJHZ03	127	923733	1-491	15-505	
HBJHZ08	128	958969	1-373	15-387	
HBJIA19	129	920881	1-678	15-692	AA773280.
HBJIA92	130	494812	1-324	15-338	
HBJID21	131	670642	1-415	15-429	AA524953, AI418334, AI079663, and AI807855.
HBJID81	132	697594	1-433	15-447	AA864727.
HBJIL11	133	966701	1-414	15-428	AC007564, and AL049766.
HBJIL31	134	847865	1-527	15-541	
HBJIL53	135	971136	1-524	15-538	
HBJIL75	136	698405	1-399	15-413	
HBJIL88	137	721859	1-475	15-489	
HBJIO70	138	725097	1-424	15-438	
HBJIO79	139	774812	1-486	15-500	AI797163, AA761740, and AI278601.
HBJIR58	140	735365	1-330	15-344	AC002470, and AC007308.

HBJIY20	141	669519	1 - 148	15 - 162	AR050541.
HBJIY86	142	725084	1 - 652	15 - 666	AC007488.
HBJJB02	143	919379	1 - 435	15 - 449	
HBJJB04	144	878974	1 - 448	15 - 462	AC007319.
HBJJB11	145	965016	1 - 424	15 - 438	N27511.
HBJJB15	146	659920	1 - 512	15 - 526	
HBJJB26	147	681342	1 - 359	15 - 373	AI886860, R17495, H96146, AA582791, AA069643, W02625, AA745628, T51436, AA593092, AI955111, AW169038, AI538214, N32496, AA243974, AA244061, AA629731, AA737235, AA745653, AI343169, W24944, H39038, AA856904, AA324108, T62233, AA279649, AA188676, AW410201, AI671077, W03120, AI570237, AA187624, AW404337, AA848002, AI418661, H81267, AA229422, F23294, T26476, AA523695, AA032001, AW341741, F30158, R32162, AA179304, AA452325, AA668715, AA215470, AC004644, AC006111, AC005618, Z95331, AC006146, AC002312, AL021918, AC005089, AC005086, AC002381, AL031295, AC004687, AC008101, U91322, AC016027, AC005874, AF134471, AC016830, AC005081, AF047825, AC006449, AC007425, AL049709, AL327777, AC005730, AC002352, AL031311, AC009946, Z83819, AC003108, AC004970, AC003982, Z98884, AC005969, AC006006, AL121658, AC005015, AC008079, AC004216, AC005193, AC007731, AL139054, AC006241, AL121825, AC006312, AP000504, AL133485, AC005500, AC004794, AC002544, U95739, AC003098, AP000103, AP000032, AL133243, AL021155, AF129756, AC004253, AC006581, AC005921, AL035681, AL022165, AL109758, AC007227, AL021391, AF111169, AC006130, AC005666, AF196972, AC007537, AL096701, AL050332, AL022334, AL096678, AC006084, AP000216, Z98751, AC002301, U15422, AL034402, AC006251, AC003037, AL035684, AL034418, AC005006, AL121653, AF196779, AC006211, AL078593, AC005531, AC005237, U73634, AC007566, AC002126, AF064861, AC005562, Z83843, AC002565, AC006040, AC000379, AL021026, AC005018, AL035460, AC005317, AC007376, AC004883, AC005037, AC004821, AC005971, AF001550, AC002404, AL109865, AC005207, AL031584, AC000035, AC005332, AC004938, AB020864, AL133163, AP000694, AC003661, AF003626, AC005486, AP000516, AC004876, AL035086, AL135744, AC005815, AP000514, AC005663, Z98752, AL049780, AC007055, AC006441, AC005377, AC008372, AC009510, AL031778, AC005664, AF111168, AC005907, AL031281, AC005620, AL021707, AF126531, AC020663, AL022302, Y14768, U91321, AL109967, U91327, AC000025, AC006160, AC004386, AC007052, Z83826, AC005544, AC007011, AL031673, AC004150, U63630, AC003072, AC007686, AC005048, AC006132, AP000553, AF195658, AC004542, AC002316, AL022336, AF053356, AP000043, AP000111, AC004647, U91323, AC005082, AL133448, AL109952, Z97055, Z93017, AP000030, U07000, AC005768, AC019014, AL049832, AC007774, L78833, AC003119, Z84480, AC002365, AL121655, AC004223, AC005839, AC000353, U80017, AC005325, AL020997, AC005829, L78810, AC005632, AC005821, AL035413, Z69719, X69908, AC004933, AC002310, AC004983,

HBJJB40	148	710873	1 - 519	15 - 533	AL022326, AC008041, AC007283, AC007510, AC005180, AC004895, AC008115, AC005192, AC005378, AC005484, AC004804, AC006974, AC005527, AP000704, AC012398, AC005291, AC004813, AC005696, AC005070, AC004000, Z69765, and AL031685.
HBJJB61	149	741615	1 - 369	15 - 383	AI205547.
HBJJB62	150	743096	1 - 422	15 - 436	
HBJJB74	151	765406	1 - 426	15 - 440	
HBJJB78	152	489438	1 - 390	15 - 404	AA076977, and AA076965.
HBJJD31	153	691780	1 - 452	15 - 466	R58828, AP000556, and AP000557.
HBJJD90	154	712982	1 - 435	15 - 449	AL035090.
HBJJH48	155	721473	1 - 357	15 - 371	
HBJJN13	156	915977	1 - 414	15 - 428	W93924.
HBJJQ29	157	666221	1 - 384	15 - 398	AA566068.
HBJJS46	158	718894	1 - 589	15 - 603	
HBJJU62	159	664298	1 - 415	15 - 429	
HBJJU81	160	671611	1 - 375	15 - 389	AW449043, AA515418, E15648, E15652, and E15653.
HBJJX04	161	949592	1 - 917	15 - 931	AI343473, AW294828, AI521275, and AI797793.
HBJJX11	162	847854	1 - 403	15 - 417	
HBJJX44	163	657242	1 - 561	15 - 575	T55674, N32741, and AL110337.
HBJKA75	164	682250	1 - 233	15 - 247	AA357979, AA357978, AA078137, AA078184, H63953, AI431513, AL036665, AA572974, AA626840, AA744095, AA774006, AI561043, AW029269, AI928890, H63220, AL037927, AA744423, AW105463, AA626595, T49133, AW151761, AA484191, D82321, AA513884, AW019964, F30158, AA317261, T51436, AA745628, AA515351, AA587826, AA573062, N34689, AA666066, AA053463, AA640252, AA434346, AA808847, AA669747, AI479148, AA478602, AA657374, AA564582, AI370170, AA599749, AA713705, AA653638, T06576, AA015948, AI635440, F32213, AA826102, AI860535, AW128881, AI590404, AW419389, AA741301, N30650, AW379218, AA610433, AA568314, H65308, AA699517, AI362694, AW151541, AA302978, AW085790, AW272815, AL079734, AI811647, R81176, AA653985, AW069412, U91320, AL121825, AC006065, AC006538, AL109827, Z98051, Z79997, AL078611, AC005081, AC005015, AC002457, AC003037, AC007057, AC005534, AC005037, Z99128, AC002316, AC005696, AC005192, AL035089, AC005772, AC005253, AL024498, AC005562, AL008715, AC005184, AF196779, AL122020, U96776, AL096677, AL109847, AC004815, AC002456, AC005231, Z83820, AC005284, AC004158, AL031594, AL049713, AF207550, AC003969, AC010200, AL109865, AC003973, AC005214, AL031776, AC007129, AL050318, AF121781, AC004797, AC006312, Z99716, AF053356, AC002073, AC004531, X64467, AC005031, AP000008, AL049570, AP000704, AC005828, AL031433, AC008115, AF001905,

HBJKC52	165	974123	1 - 494	15 - 508	AC007363, AC004967, L77036, AL078463, AC004036, AL050348, AL022718, AC007193, AC004805, AL133353, AC009509, U77080, U73078, U73330, Z49235, AC004975, AF111170, AC009542, AL135744, Z83826, X81637, AL049590, AC005212, Z84482, AC004167, U80017, AC004589, AL024474, AL035694, AL031672, AC005921, AC007736, AL049869, AC005014, AC002433, AP000142, AL022326, AL049743, AC000379, Z99291; AP000081, AC005800, AC006000, AC003085, AC004843, AC002312, AC011331, AC006039, AC005726, Z97030, AL008635, AL020997, AC007371, AL035397, AL049872, AP000358, AC006126, AC005808, AL031284, AC002364, AL132985, AC007421, AL023513, Z68285, AC007191, AL096761, AL022320, AF124730, AC005532, AL035685, AC005294, AL022577, AL031719, AL031602, AC004973, AC004223, L78810, AC002994, AC005105, AC007073, AL109963, AC005625, AC004816, AC007546, AC006450, AF109907, AF001552, AL021154, AC004585, AC005071, AC006441, AC005157, AC007041, AC004491, AC004605, AC018725, AC006276, AC002984, AD001527, AC002128, AP000252, AL132799, AP000212, AP000134, AP000030, AC005006, AC005865, AL049631, AC007880, AC004659, Z98941, AC004686, AC004020, AC006213, AC005243, AC004887, AC006560, AC007225, AC004692, AL133216, AL049833, D87675, AP001054, AL024494, AC005781, AC004901, AC005972, AC004001, AP000694, AL109627, AC004835, AL049709, AL031985, AL034549, AL121652, AL049829, AC009399, AC023301, AC005232, AF057280, AL031680, AC009330, AL022336, Z84479, Z98742, AC005728, AL009031, AC004103, AC005220, AL117338, AL035681, AC005531, U96629, AC018633, AL022322, AC004168, and X06828. AI032590, AI568523, AA015921, AA020884, R08692, W01056, AI918922, AI049648, AC004805, U91322, AL079304, AL023581, AC005611, AC005243, AC007298, AL031056, AC000004, Z98884, AL049830, AP000246, AP000129, AP000207, AC005579, AC004525, and AC013256.
HBJKC56	166	735812	1 - 287	15 - 301	T96742, and H52012.
HBJKC86	167	974121	1 - 514	15 - 528	
HBJKD68	168	676330	1 - 238	15 - 252	
HBJKE63	169	744847	1 - 369	15 - 383	
HBJKF06	170	935033	1 - 589	15 - 603	AW241714, and AA927828.
HBJKF86	171	714449	1 - 494	15 - 508	
HBJKJ26	172	489160	1 - 516	15 - 530	W87882.
HBJLB78	173	588085	1 - 317	15 - 331	
HBJLC51	174	784830	1 - 865	15 - 879	AW451973, AI766808, H88067, AA477171, AB376202, AA760752, AA781175, AW173607, AA992090, AI654796, AA946869, and H88069.
HBJLD57	175	683265	1 - 460	15 - 474	AA465326, and AL031733.
HBJLD73	176	765356	1 - 408	15 - 422	

HBILE82	177	735748	1 - 474	15 - 488	
HBILF58	178	864013	1 - 226	15 - 240	
HBILL07	179	952791	1 - 273	15 - 287	
HBILL13	180	656721	1 - 291	15 - 305	
HBILL18	181	665874	1 - 329	15 - 343	
HBILL28	182	847840	1 - 340	15 - 354	AA483929, AI499588, N57739, AA664548, AA493136, AI524360, AI791913, AI821714, AA482273, AW023990, T06754, AA455670, AA630672, AA501649, AA961035, AA579179, AA837087, AA533782, AA487888, AW438542, AA503298, AI821785, AW023149, AI223700, AW149313, AA588001, AA618452, AI473475, AA662976, AW270343, AI933714, AI431240, AA858372, AW148507, R31790, AA857370, AW196064, AA339692, AA580808, AA864261, AA502991, AW238605, AA370455, AI580250, AA507282, AI648410, AI587224, AA483771, AW270709, AA595499, AA516233, AA828062, AA501852, AA719073, AI470646, AA846935, AA297666, AI859438, N23504, AI683446, AA436774, AL138096, AA002063, AA635368, AL042927, AI874308, AA654661, AA610688, AA436782, R23521, AA515905, AA502440, AI696595, AA071334, AA621381, AI921043, AA468505, AW341978, AI792133, AA230213, AA643770, AA651632, AL036037, AI354388, AI754544, AA707782, AA707705, AI341571, AA833896, AA282820, AA833875, AI733856, AA780944, AA503119, AI754567, AA483223, H25921, AI755214, R23441, AI691091, AA493975, AA368573, AI056177, AA522642, AL038971, AA513893, AA653375, AL044586, AA687535, R73754, H29019, AA634837, AL047429, AA209423, AI587565, AI587583, AW302080, AI253007, AW081194, AW302087, AI434695, AA077019, AC004257, AC005696, AC016830, AC005060, AC006313, AC005071, AC003070, AF111168, AL049779, AL031447, AF047825, AC004659, AC006120, AC004148, AL133246, AC016027, AC007191, AC005002, AC005527, AP000556, AP000252, AC003029, AP000552, Z82180, AC003690, AC005226, AC004832, AC004883, AC005581, AC005387, AC004999, AL121653, AC004884, AC006312, AC005519, AC007842, AC005003, AL033518, AP000557, AL096701, U82828, AL049653, AP000703, AL121595, AC006251, AP000116, AP000049, AC007277, AC004638, AC005914, AL035422, AL050318, AC005880, AP000121, AP000053, AC005939, U47924, AL110502, Z97054, AC006112, AC005317, AL135744, AP000311, AC003663, AL049761, AC004953, AC004019, AC002116, AC005694, AC006487, AC005512, Z95115, AL021807, AL049745, AC007011, AC002301, AC005231, AC002375, AC006978, AP000066, AP000558, AC006285, U82668, AP000513, AC005197, Z75746, AF001549, AL031228, AC004814, AC006208, AP000244, AF111169, AC005899, AC005280, AL021940, AC005971, AC002310, AC006208, AP000244, AF111169, AC005899, AC005280, AC005049, AC006441, AC002531, AL049776, AC020663, AC007172, AL022165, AC004675, AC005031, AP000251, U91326, AC004149, AC003024, AF165926, AC006530, AJ003147, Z85999, AL023553, L77570, AL049589, AC009247, AC005305, AC005790, AL109798, AL109798, AC007193, AC007450, AC005181, AL034451, AC002492, AC004983, Z84466, AC004706, AC004706, AC004706, AP000355,

HBJILL57	183	734522	1 - 322	15 - 336	AF088219, AC006581, AC002543, AP000065, AC007546, Z93942, AC005856, Z85996, AL080317, AP000689, AC005409, U89335, AL031673, AP000030, AJ133269, AC004812, L44140, AC000159, Z98036, AB023052, AF196969, AJ010770, AC002470, Z83844, AC004686, Z82214, AC000134, AC003982, AL078477, AC009516, AL035420, AP000692, AC016831, AC005399, AC009399, L78810, AC005531, AC007358, AC005089, AC005800, AC004655, AL049699, AL033543, AC006137, AC002041, AC000025, AL049757, AC004383, AC007387, U91323, AC007227, AP000512, AC007262, Z98884, AL133448, AL049759, AC007114, AL033522, AF043945, AC006211, AC007656, AC004955, AC004263, AF129756, AL022721, AC005598, AL031255, AC005765, AL049872, AL031983, Z85986, AL035684, AC007371, AC008040, AC003043, AC008132, AL022323, AC005520, AC005480, Z98051, AL049760, AL080243, AC004815, AL022316, AC005037, Z83846, AL023807, U80017, AC002472, AL133163, AC007919, AC006453, U91325, AC005535, AC005940, AC000353, AC005209, AL022396, AL008582, AP000503, AC005740, AC002996, AC007785, AC006026, AC005081, AC004448, AC007686, AC006040, AC016026, AC002395, AC004848, AC005234, AC002070, and AL139054.
HBJILL68	184	752810	1 - 332	15 - 346	
HBJILP14	185	657747	1 - 341	15 - 355	
HBJILR56	186	843811	1 - 882	15 - 896	AA075481, AA075480, AA075067, AI791780, AA127140, J04716, L39879, L01122, M73706, S89400, K01930, J02741, U75408, W38303, AA076112, and AA076111.
HBJLR82	187	779004	1 - 354	15 - 368	AW239537, AA232075, W78769, AW020962, AA448818, AA128583, and AJ010842.
HBJLV29	188	823400	1 - 374	15 - 388	AI797543, AA121152, AW189950, AA281969, AI082147, AI034184, AI871347, AA815173, AW418773, AA579808, AI468532, AI290248, AA458860, AA227296, AA573302, AA702437, AA278877, AA227295, AI458479, AI802340, T07432, Z39708, AI985569, T85327, AA659414, AI027853, AI766719, AA350191, AA904439, T16811, and AC004798.
HBJMA30	189	661665	1 - 646	15 - 660	T87986, and AA814273.
HBJMA51	190	725095	1 - 179	15 - 193	
HBJMC53	191	726491	1 - 454	15 - 468	
HBJMD71	192	760155	1 - 531	15 - 545	
HBJMD74	193	975088	1 - 467	15 - 481	AW206211, AF150250, C14388, AC002045, AC009509, AC006241, U52111, AC002554, AC004491, AF047825, AC005086, U95739, AF111168, AC007285, U80017, Z82190, AL031602, AL121655, Z97054, AC004893, AC005874, AF134471, AC007993, Z85987, AC03104, AC000134, AC007919, AC004692, AC008115, AC005363, AC005822, AC005300, Z94801, AC002128, AC003029, AL034429, AC005088, AC005914, U96629, AC005534, and M18157.
HBJME92	194	792110	1 - 426	15 - 440	
HBJMF23	195	675692	1 - 379	15 - 393	AA126910, AP000360, AC000053, AC002060, and AC005002.

Clone	No.	ID			Accessions
HBJMF30	196	691179	1 - 566	15 - 580	AW182540, AA610084, AI936489, AA306791, AW340569, AA905749, and AB033050.
HBJMF47	197	720050	1 - 374	15 - 388	AW004683, H87822, H87851, and AW015156.
HBJMI76	198	720047	1 - 425	15 - 439	AC004254.
HBJMK34	199	935952	1 - 443	15 - 457	AL031657.
HBJMK94	200	794129	1 - 438	15 - 452	AI241023, AW401921, and AB023483.
HBJML28	201	614911	1 - 465	15 - 479	AC002368.
HBJML69	202	864004	1 - 662	15 - 676	H55415, W22115, AL096701, and AB011114.
HBJMM72	203	760833	1 - 408	15 - 422	AA601336, AA640305, AW341878, AI567676, H79323, AA593168, AW020612, AA167656, AW085626, AA729004, N27362, F35374, N49298, AA179364, W45416, AI520984, T89141, R99617, AI253347, AI918661, AI061158, AI281622, AA947352, AA228268, AA664963, W27084, AA761454, F01694, T57636, AA299490, AI744890, N63562, AI640905, AI919048, H81012, AI569452, AA828840, AI828721, AA496042, AW028376, AI343808, AA776663, AA428991, AI363336, AI149177, AL049177, AL049743, AF165926, Z83840, AL109984, AL031311, AC005412, AC004821, AC007686, AC007546, AC007207, U85195, AC005377, AC007421, AC008115, U95742, AB000658, AC004832, AL035587, L78833, AC007216, AL020997, AL031589, AC004797, AC005520, AL035420, AF196779, AF139813, Z98200, AL033392, AC003025, AL035086, AL080243, AL121655, AC006530, AC005355, AC002312, AJ246003, AC004228, AC004895, AC005180, AL096791, AC006312, AP000512, AC005519, AC006285, AC005081, AL049869, Z82190, AC005839, AC005015, AL049694, AC004816, AC006071, AC005726, AC002120, AL031293, AC005089, AC006121, AL021453, AC005527, AC005696, AC006139, AL135744, AL133163, AF217403, Z97630, AC005971, AL035422, U78027, AC004878, AC004975, Z82176, AF023268, AC000025, AL121603, AL008582, AL049757, AF001549, AC005399, AC005914, AC007387, AC005207, AC000048, AF207550, AC005821, AC002094, AP000248, AC005876, AC002117, AC005231, AC005288, AL034429, AC006130, AF111167, AP000704, AL133448, AL096701, AC096701, AC007386, AF111168, AC005529, AL031280, Z98884, Z73979, AF134726, AC004099, AC006581, AF051976, AC006160, AC006077, Z93020, AC004212, AL008734, AL031655, AC007993, AC005695, AP000555, AC004913, AC007308, AF109907, Z97056, AC005277, AL020995, AC003041, Y18000, AL117329, AC007263, AL034421, AP000503, AP000008, AC000514, AP000514, AL049780, AL031123, AC007055, AL133246, U52112, AC005632, AL022333, AC003109, AD000092, AC004897, AC007226, AC005183, AC005829, AC005911, AC005049, AC003109, AD000092, AC004897, AL023807, AL122020, AL109952, AD000864, and AC005993.
HBJMN75	204	699060	1 - 448	15 - 462	
HBJMQ86	205	576429	1 - 513	15 - 527	
HBJMR15	206	964484	1 - 493	15 - 507	
HBJMR60	207	740142	1 - 601	15 - 615	
HBJMT52	208	726480	1 - 240	15 - 254	

HBJMV72	209	952862	1 - 469	15 - 483	
HBJMW20	210	669030	1 - 643	15 - 657	
HBJMX04	211	614930	1 - 338	15 - 352	AI810024, AW023610, and AA609969.
HBJMX21	212	933143	1 - 353	15 - 367	
HBJMX29	213	690404	1 - 347	15 - 361	AW166629, AA601349, AA052895, N66744, AI732437, AI114704, T86740, AA491447, T98482, AA918759, AA663115, AA663086, AA291630, H72049, AW084938, R11040, AI926873, AW440498, T87973, AA846969, H93001, N63743, AA603883, AW028174, AA838162, AA507035, AA706845, AA837385, AA291700, AA297496, H73336, AA352365, AC004961, AL133382, AL034411, Z73420, AC002352, AC004887, AC003108, AC004645, U91326, AC006111, AC005509, AC004081, AL008712, AC016831, AL031276, AL033392, AC005531, AC007298, AL080286, AC004950, AL031985, AC004987, AC004448, AP000365, AL021939, AP000514, AF015262, AJ229043, AC005037, AL020993, AF196969, AP000547, U08988, AP000295, AP000044, AP000112, AP000152, AC004223, AC007663, AC006549, AF001549, Z68756, Z70289, AC007774, AC005516, AC004466, AC002312, AC002390, Z92547, AC005746, AC003071, AC002544, AJ010770, AL031584, AL121595, AB014080, AF017104, AB026898, AL050312, AL034408, AF020662, AC000078, AL109798, Z95331, AC002400, AC006441, AL049430, AC006059, AF147316, AC005081, AC004876, AC004106, AL022578, AC002365, Z85987, AF196779, AC007364, AC004167, AL034582, AC016027, M98447, U82671, AL009179, and AP000553.
HBJMX34	214	703843	1 - 382	15 - 396	
HBJNC11	215	966608	1 - 516	15 - 530	
HBJNC89	216	786707	1 - 341	15 - 355	
HBJND59	217	576434	1 - 767	15 - 781	AA985391, AI053911, AA548890, AW403888, AL037632, AA081462, AI470646, AA834809, AA588001, AA833896, AA833875, AI580250, AA912287, AA483771, AA380354, H59372, AW274349, AW303196, AA580808, AW196064, H61630, AW301350, AL138096, AA515457, AI791913, AI792133, N54894, AI821714, AA679154, AI282511, AA483218, F25733, AI270096, AL119713, AL120687, AI283312, AA683258, AA507822, AA457642, AA491862, AA838190, AA491650, AW270270, H70994, AI821785, AW440545, H69109, AC007226, AF003528, AL031905, AC005815, AL008715, AC005036, AC008055, Z98941, AL096772, AC023172, AC005144, AC006013, AC007435, AP000228, AF165147, AP000140, AC007488, AP000088, AC005722, AC002480, AL049712, AC002523, AP000201, AP000093, AC005881, AC007447, Z82198, AP000097, AP000237, AF107258, AC007437, Z74739, Z86064, AJ229042, AC005261, AF001552, AF146191, Z83846, AC007842, AL009050, AC007671, AC005249, Y12853, AC007298, AL023807, AC004216, AC004372, AC005011, AL078459, AL031664, AC007066, AP000961, AL035089, AL079342, AL024495, AC005284, AC004741, AL121595, AC002499, AL021978, AC005874, AF134471, AC005146, U91323, U82668, AC002536, AP000966, AC007262, AL033379, AC004948, AL080239, AC002091, AC007681, AL049744, AC010200,

HBMBC18	218	578887	1 - 298	15 - 312	AC006965, AL033527, AC007363, Z98742, AC006450, AC007182, AL020995, AC003009, AC006210, AF045450, Z84483, AC008122, AC006080, AC004638, AC002492, AL080285, ALD22336, AL049779, AF165175, AC007395, AL020989, AC002543, AC004805, AL021939, AC006322, AC008072, AC005006, AC009721, AC003086, AC006379, AC005243, AL021391, AC004061, Z97205, AC008124, AC005035, AF064860, AL031666, AP000108, AC007270, AL022144, AP000086, AL031681, AC005082, AC002429, AC009069, AL033525, AB020869, AC004905, AP000958, AP000161, AL031735, AC002449, AL133241, AP000150, AF053356, AL049540, AL049875, AC010169, AC004108, AF015262, U82696, AL031012, AL035416, AL117329, AL096792, AL022323, AP000009, AC005871, AJ229043, AC002463, AL121877, AC005482, and AC006390.
HBMBC25	219	573103	1 - 414	15 - 428	AB014526.
HBMBC35	220	921417	1 - 348	15 - 362	AC004702.
HBMBC91	221	506594	1 - 560	15 - 574	H69543, H80124, W88965, W88544, R02124, and AP000497.
HBMBE72	222	760737	1 - 632	15 - 646	AW205507, and AI300640.
HBMBE84	223	578869	1 - 325	15 - 339	AC005905.
HBMBH36	224	971172	1 - 341	15 - 355	
HBMBH55	225	732250	1 - 289	15 - 303	
HBMBH91	226	753141	1 - 199	15 - 213	
HBMBI06	227	935819	1 - 407	15 - 421	
HBMBN32	228	775670	1 - 362	15 - 376	AA127005, H06566, AA125853, R56714, and AF191018.
HBMBO20	229	496513	1 - 453	15 - 467	
HBMBQ33	230	702457	1 - 461	15 - 475	R11468, AL009031, and AC002326.
HBMBQ83	231	689705	1 - 533	15 - 547	AA604872, AA026240, AA704592, AA258677, AC004087, and AC002385.
HBMBS11	232	967111	1 - 355	15 - 369	
HBMBT85	233	863938	1 - 349	15 - 363	AC018633, and AC005271.
HBMBU24	234	677240	1 - 179	15 - 193	AA747565, AW207289, AD249497, AW366372, AI336633, AI434255, AW149876, AI336634, AI524654, AI472536, AI049713, T99953, R28164, AI538938, AI289542, AI344935, AI267185, F28295, AI114703, AI811603, AA749184, AL048323, AW059828, F35428, AL048340, AI473208, AI479292, AI360195, AW022102, AI890507, AI285514, AA493923, AI383804, AI801325, AW020419, AI690813, AI687568, AA595932, H89138, AW188698, AI699020, AI687587, AD289791, AI521005, AI784233, AI918554, AI345005, AW026095, AW169643, AI345745, AI225000, AI440263, AI698427, AA939199, AI468959, AI310575, AI161279, AI799351, AI872423, AI334893, AA481494, AI340533, AA761917, AI669640, AL120831, AI284509, AL047398, AI689404, AW169628, AL040207, AI345736, AI273919, AA587590, AA502794, AI345415, AI246070, AI436429, AI345396, AI366959, AI828574, AI499104,

AI345397, AI627714, AA207067, AI955945, R65859, AI560227, AI335235, AW021373,
AI699056, AI285419, AI273856, N99092, AL047422, AI434731, AA127565, AI336631,
AW072719, AA642348, AW190242, AI539690, AW079768, AW268302, AW235501, AA768478,
AI583982, AI337186, AW302954, AW104141, AI348854, AI002285, AI050666, AI307494,
AW274355, AI250646, AW088899, AA176980, AI336582, AW167229, AI251221, AI349957,
AW131952, AA653459, AI285439, AW161579, AI885949, AI582871, AI581033, AI224463,
AL048644, AW274192, AI500706, N27632, AI254727, AI500662, AI471429, AW301505,
W48671, AI340511, AI624304, AA857847, AI679959, AI633061, AW022494, AI348870,
AI571699, AI699154, AW020288, AI702527, AA420722, AI349814, AI349186, AI336575,
AW020710, AW023859, AI609375, AI349772, AL038463, AW020397, AI334895, N63128,
AA579232, AA635382, AW082835, AI815232, AI335476, AI343030, N33175, AI471909,
AI491904, AI284517, AW268964, AI379711, AI218156, AW243232, AI804505, AI866581,
AW075382, AI859644, AA629977, R32821, AW020826, AA062896, AI927233, AI348895,
AI656270, AW068845, AI698391, AI336495, AI349276, AI538564, AI784214, AI612885,
AI345639, AI553645, AW191003, AW089122, AI915291, AI371251, AW152182, AI538850,
AI859991, AI537273, AW148303, AI582932, AA514684, AW020373, AI590043, W38903,
AI586931, AI524179, W46378, AI446775, AI690946, AW088560, AW301344, AI521560,
AI889189, AW264727, AL036146, AW161202, AW172723, AI309306, AI473536, AI866461,
AL045626, AW151979, AI866469, AI865116, AI553669, AI252077, AI348897, AI250627,
AW274318, AI500714, C16221, AI950892, AI633125, AL048499, N22276, AL047344,
AL137562, AL137712, AR068466, E12579, AL117440, S77771, AR038854, AL133093,
AF043642, A08913, L04504, U89295, A08912, X06146, E12580, AL133606, A08910, E01573,
E02319, A18777, A08909, AL049324, X99257, X57084, U80742, S76508, AL137276, A08908,
S36676, AL122123, AL080074, A08907, L40363, AF090886, S69407, AL049452, AL110196,
U90884, AL133081, AL137273, X93495, AL117432, AL110280, AC006197, AR050959, I89931,
I3391, AL110197, AL049460, AB030279, I89934, X00861, I49625, AF026124, AF058921,
AF150103, AR064250, AB019565, AJ131955, AL133636, AL050280, AB025103, AF079763,
E00984, I04527, X62773, AF008439, I89947, A65965, L13297, Y11587, A65943, AL050155,
E03671, AF200416, AF017790, I30339, I30334, I48978, AL096720, AF090896, AL133565,
AF114168, AL008706, E08516, E02152, X63410, S75997, AL137429, AF100781, A90848,
X62580, U67328, AR029490, I46765, AC006313, AB007812, U96683, X86693, AL080147,
AF016271, E01614, E13364, U91329, AL137292, AJ012755, U72620, I89944, AF026816,
AF169154, X82434, X79812, A65341, I42402, AF031147, M86826, AF106697, AL080158,
E01314, AL122100, I66342, S83440, U62966, AL133113, AL133010, AF137367, AL137555,
U75370, AF047443, AF032666, X72889, AL137550, AF001552, L24896, AF115410, U75932,
AF091084, AL133104, AF175903, AL117644, AR054987, Y11254, AF141289, AL137538,
AL133557, AL133016, AF036268, U57352, AL080132, AL080137, Y10080, AL137548,

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HBMBU38	235	531494	1 - 311	15 - 325	AL031259.
HBMBX69	236	698362	1 - 319	15 - 333	AC004883.
HBMBY27	237	574803	1 - 407	15 - 421	AI075978, AW298093, AI201251, AW293546, AI917770, AA906330, W63599, AW086186, AA890701, and AA551674.
HBMBZ71	238	880580	1 - 1275	15 - 1289	AA693506, AA411644, W31362, AA422026, W24882, AA016012, H16662, and AW351706.
HBMCA44	239	716647	1 - 504	15 - 518	AI380599.
HBMCA58	240	736084	1 - 287	15 - 301	AL078644.
HBMCA94	241	793174	1 - 444	15 - 458	
HBMCD26	242	847826	1 - 275	15 - 289	
HBMCD49	243	723005	1 - 344	15 - 358	Z83853, AC006318, AC004137, and AC006262.
HBMCE22	244	674659	1 - 439	15 - 453	W31342, and AI699098.
HBMCH75	245	932037	1 - 562	15 - 576	
HBMCH88	246	711318	1 - 387	15 - 401	
HBMCK57	247	495736	1 - 493	15 - 507	AI859108, AI565562, AI366188, AA703350, AA983821, H59553, T98748, W26825, and AA630729.
HBMCQ14	248	658484	1 - 253	15 - 267	AF083106.
HBMCS34	249	703438	1 - 675	15 - 689	R25159, AW294139, and AI474654.
HBMCS77	250	465070	1 - 486	15 - 500	R00604.
HBMCT67	251	751643	1 - 312	15 - 326	AL031123.
HBMCU92	252	529580	1 - 514	15 - 528	
HBMCZ11	253	967099	1 - 303	15 - 317	
HBMCZ27	254	683436	1 - 331	15 - 345	U73636.
HBMCZ32	255	855694	1 - 369	15 - 383	AA610530, AL120543, AW192373, AA564682, AA470958, AC007204, AC005899, AL031291, AC002040, AL049830, AC005971, AC004783, AC006213, Z97832, AL049776, AF047825, AC002492, AF196971, AL035588, AC002470, AC007401, and AL078634.
HBMDA51	256	691116	1 - 434	15 - 448	

HBMDC03	257	924183	1 - 405	15 - 419	
HBMDC16	258	888206	1 - 398	15 - 412	
HBMDC88	259	750274	1 - 135	15 - 149	
HBMDD36	260	861576	1 - 279	15 - 293	
HBMDD59	261	739316	1 - 333	15 - 347	AA027081, AI525653, AI525669, AI557238, AI557808, AI557602, AI547225, AI557426, AI541321, AW020592, AW022727, AW021178, AI541056, AW022874, AI541048, AW020406, AW019988, AW021777, AW022826; AW022299, AI557222; AI525802, AW020425, AW022308, AW020328, AI886206, AW020634, AW023351, AW021693, AI557258, AW020931, AW022981, AW021182, AW020480, AW021466, AW022593, AW020629, AW023884, AI525857, AW021561, AW021059, AI525656, AW023617, AW020295, and AC007655.
HBMDE19	262	657382	1 - 339	15 - 353	AA677098, and AC004814.
HBMDF55	263	952830	1 - 393	15 - 407	
HBMDH79	264	805554	1 - 788	15 - 802	F34605, AL046519, AI340151, N69399, AI246061, AA229159, F00350, AI302350, H64549, F24745, R68706, H16875, AW071109, AI204309, AA523719, AA778580, AA456149, M85827, AI280566, M78026, Z30049, W45215, AA648957, H68343, AC012384, AC002480, AC005531, AL008710, AL035079, AL031729, AL049631, AC004025, AC004983, AL022320, U80017, AC007488, AC004477, AL121769, AL022397, AP000300, AC002994, AL049832, AC002350, AC007172, AC007066, AC006449, AP000113, AP000045, AC007014, AC004466, AC003681, AC006557, AC004791, AL031054, AC007880, AF109907, Z98884, AC005529, AC004797, AC002310, Z99943, AB000658, AC006101, AP000346, AL049712, AC003046, U15177, AC004874, AC005516, AL022316, AC002990, Z83822, AP000354, AC007040, AC005527, U91323, AC005191, Z82194, AL135745, AF001550, AC004656, AL031668, AC005829, Z95114, AL021707, AL121653, AC004448, AL121852, AL021578, AC004890, AC005184, AC005486, AC006141, AL008718, AC007228, AC004584, AC000003, AC003108, AC007919, AF196971, AP000501, AL096711, AC004816, U96629, AC006120, AF207550, AL031655, AC004263, AC005846, AC002367, AC006576, AL034429, AJ003147, AC007955, AC002369, AL049709, Z86090, AL034420, AC018633, AL121748, AC000159, AL035420, AC006509, AC004953, AC002528, AC004878, AC005015, AC005280, U89337, AC005049, AC002303, AC006137, AC005099, AL008635, AC007546, AC005696, AC004858, U89335, AL035681, AC003029, AF024533, AL031255, AC005664, AC005207, AL109984, AL035587, AC005865, AL022326, AC005844, AC007182, AC005753, AC000097, AL008725, AL031848, AC006547, AC002470, U91325, AC000379, AB015355, AC005164, U91318, AL035652, AC005332, AC002091, AL049869, AC006468, AC005007, U95742, AC002565, AC006538, AC007707, AC005158, AC005800, AL031733, AC003075, AC005037, Z85986, AC005859, AC007216, AL031643, AC004223, Z84487, AB003151, AP000688, AL034423, AL022722, AC005736, AL031591, AC003982, AF069291, AL034553, AC002312, Z82190, Y10196, AC004098, AC004967, AP000313, AC003950, AL035249, Z95704, AC005197, AC009542, AC005484, and AR036572.

HBMDJ11	265	967046	1-325	15-339	
HBMDJ36	266	721673	1-188	15-202	AC005971.
HBMDK12	267	970684	1-348	15-362	AW303196, AW274349, AW301350, AI754955, AA649722, AA634145, AA768097, AA937687, AA810370, AA719080, AA573020, AA644207, AA709005, AA504638, AA558060, AA487858, AA568778, AA649705, AA579736, AA554319, AA858197, AA461233, AA513972, AA501578, AA814522, N29933, AA132914, AA483731, AA480790, AA824655, AA824654, AA582911, AA077817, AA437161, AI830390, AA523815, AA350859, T15897, AA650450, AA602528, AA670468, AA861959, R97934, AA845813, AI434706, AI962050, AI284640, R38154, AA610493, AW440976, H50727, AI251002, AW236342, T07451, AA167659, AA525824, AA577906, T71030, AA229785, AA522942, AA603156, R97326, T06828, AA678499, AA743978, AA504871, AA578481, AA492140, AA623002, AA970213, AI625244, M77899, T05101, R89294, AA199616, AA490183, AW193265, AI282832, F18974, AA259245, AW276435, AI270117, AA826303, AI688846, AA605032, AA649642, AI824562, AA745104, T41124, AA113861, AA720548, AA729721, AA634146, AA525876, AA326589, AA569167, AI205126, AI278997, AA552885, H64778, AA346575, AA610611, T08438, AA325817, AB39850, AA075995, AW029038, AA558015, AA947360, AA804379, AI929531, AA664015, AA837677, AA632837, AA515435, AA550758, AA973803, AA483068, H63607, AA774184, F32800, AA703887, AA719805, AI434695, T06556, AW088058, AI537955, AA177061, AA020850, N66428, AA594145, AI469172, F19012, F36273, AA401022, AI216799, AA886584, AW438643, AA578391, AI281697, N33611, AA252263, AA837084, AA446657, AA947811, AA233519, AA780797, AA847128, AA771811, AA491762, AI291124, AA378580, AA586562, AI471481, AW166815, AA890235, AA713815, AA745410, AW162049, AA515051, AA665021, AW419118, AA323749, AI291268, AW276827, AI014358, AA503473, AA610783, AW021747, AA449088, AI537030, AA599920, AA605274, H10994, AL046409, AW440836, AA743960, AA368936, AB341548, AI679782, AA813902, W16581, AI904894, AA678443, H64563, AI564185, AA601499, AA485291, AA598586, AW193432, AA779040, AA346454, AA775940, AL044940, AI917271, AA557879, AI281881, AI469003, AI287651, AA385100, AA557686, AI801591, AI446464, AI286264, AW302450, AF150152, AA325699, AA441788, T40077, AI918421, T41155, AA225155, T67750, AA678772, AA827295, N63352, AI431303, AI049722, AI133636, AI567674, N25296, AA501722, AI002834, AA558697, AA747480, AI053672, AI674873, AA644551, AA551503, W47183, F03097, AB350211, AI890923, AA468131, AA352803, R97969, AA552945, AA569387, AW338500, AL046457, AA513293, AB375710, AA458736, AI287528, AA587604, AP000130, AP000208, AP000247, AP001046, AL096701, AP000302, AP000114, AP000046, U13056, U07000, Z83822, U14694, Y12508, U14719, AC004606, AF060568, M27161, AC005994, Z82208, AF003528, U89335, AL049869, AC006210, U14718, AL031447, AL035420, AP000307, M87916, L43392, AC006241, AC002984, U14687, Z82975, AL049843, AC004024, AC005971, AC007043, AL049776, AC007656, U47924, AP000047, U67274, AC005251,

HBMDK13	268	657221	1 - 610	15 - 624	AC004955, AP000431, AC002542, AC007671, AP000354, AC004417, AC004916, AC004856, AP000115, AC000353, AL049745, D83989, AC020663, U20770, I51997, AL022328, AL078476, X75335, M89651, S75337, U14695, U14705, Z93241, U14717, AF147277, S70694, S70692, AC012599, U14685, U14686, U14689, U14691, U14699, U14702, U14707, U14710, AC009509, AC006111, AP001051, AC006128, AJ006996, X58156, AC005200, AC000041, AC003962, AC002432, AL035407, AL096712, AL035425, AC005488, AC004953, AC004019, AL034429, AC008545, AL020996, AC006305, Z82211, AL049569, AC010205, AC007695, AL022238, AL096710, AC004768, AC004921, AL031597, AC005164, U73633, AP000555, AC007225, AC005778, AC004859, AC006315, AC005548, AL021453, AC004206, AP000297, AL049830, AL109967, AC006466, AL035695, AC008101, AC008125, AC006441, AL033379, AC004542, Z84814, AC007387, U57009, U18399, U14714, X54180, U18391, U18392, U57006, U18394, X55925, U18393, U57005, AC004385, X54179, X55928, AL035417, AL117354, D42052, U89336, AC005915, AL008629, AP000311, U91319, U18390, X55932, AF126403, U14703, AL034423, S70697, AC004671, AC002059, AL023494, S70689, AC002077, U14688, U14692, AC005252, AP000548, AC006013, AC005043, AL023882, AL022318, U02048, U02054, U02063, AC002072, AC007666, AC006511, AC006265, AF067844, AC004990, AC005242, AC004998, AL022721, U32576, AC004553, AC006126, AP000306, AF094481, AC005331, AC005175, AF129077, U67829, AC013248, AL008709, AC004227, AL031391, Z98046, AF130247, AF121781, Z98743, AC002564, AL031286, AC005102, AC004987, AC006476, Z86061, AC002379, AC004222, AL109622, AJ006998, AL034402, AF165138, AC004675, AC004806, U80017, Z95115, AC004931, AF165147, AC005154, AC010722, AL031584, AC006031, AC006064, AC009069, AC007538, AF088219, AC005815, AL022726, AC006057, AC006043, AC007207, AC007073, AF001549, AF027390, U66059, AC004526, Y10196, AP000961, AL031054, AC004458, AF077058, AL035450, AC002310, AF029061, AI246003, AC006251, AC002996, AL050305, AL022157, and AL023804.
HBMDS17	269	796050	1 - 521	15 - 535	T85668.
HBMDS64	270	746572	1 -392	15 - 406	AI142427, AF073792, U51134, and I81226. AI205126, T55510, AI003172, T53606, F19258, AW104748, AI474713, U51696, W60516, F29989, AA557325, AI608626, H71429, AW080134, AI365988, AA340960, AI962050, AA814017, AI251002, AW339687, AA515051, AI929531, AW166815, AI635272, AA169801, AA229785, AW162049, AW440836, AI339850, AI890923, AI567674, AI625244, AI049722, AW029038, AI904894, AI917271, AI133636, AL119391, AA713815, AI469003, AA826303, AA904218, AL120674, AW338500, AA115968, AA584751, AW131034, T29180, AL038785, AA079706, T12272, AI922840, AL040913, AI368745, AA340003, AA551509, AA228329, AL041368, AL138265, AA653057, AA148489, AW023672, AA886584, T90706, R55847, AA644207, C06458, AA482711, AA483068, AA669251, R95171, AI679782, AI003743, AA501344, AA327782, AI433187, AA099892, AI802526, AA113186, AA365587, AC004491,

HBMSB19	271	847800	1 - 252	15 - 266	AC004149, AC007684, AC004540, Z86061, AF015171, S75337, AC004770, AF015160, AL031584, AC005778, AL009181, AC006312, AC006502, AL132712, A39972, U14718, AC005940, AC004885, U14717, AC004167, U14699, U14685, U14686, U14688, U14691, U14710, U14687, U14692, U12580, AL049777, AC004019, AC005291, AC003663, AL109733, AC007055, AC006211, AP000459, AP000311, AC004052, AL031588, AC005815, AC004832, AC003048, AF064866, AC007917, AF015167, AC004808, AC005399, AC007320, AL031904, AF015169, AC005772, U12583, AC006285, AL049557, AC005971, Z74696, U14707, AC006441, AC005385, Z84480, AL035089, AC004814, AC004831, AL132716, AC018725, AP000696, AC005280, AL031120, AC002331, AC005375, AL033525, AC005046, AL096701, Z98743, AC003003, U14695, U14705, U14701, U14702, AC004812, AC004884, AL031905, AC006001, AC003950, U47924, AC005751, AC005212, AC004596, AC005412, AC005585, AL137614, AC010197, AL049869, AF067016, AC006384, AL021391, AC004159, AF015166, AC007387, AC006071, AC006480, AF015170, AC006456, AC004989, AC000052, Z84479, AC004228, AC006011, Z69921, AC006984, AC004408, AC007377, AL078644, AL136504, AC004859, L35531, AC006019, AF015162, S75201, AC006057, AF015158, AC005999, AC006030, AP000497, AC005701, AL078621, AC000080, AL109758, AC006972, AC010722, AC009731, AL110502, AL021155, AF031078, AF140763, AC002349, AC005520, AL078580, AC007077, AC005041, AL050305, AF147277, AF055066, AL135746, AL133245, and AL031287.
HBMSK92	272	531156	1 - 114	15 - 128	
HBMSO15	273	847795	1 - 425	15 - 439	H53903, and AP000692.
HBMSO39	274	531158	1 - 206	15 - 220	AC006504.
HBMTF79	275	544889	1 - 119	15 - 133	
HBMTG05	276	932497	1 - 245	15 - 259	AB017919.
HBMTM75	277	574515	1 - 317	15 - 331	
HBMTP84	278	703844	1 - 253	15 - 267	AI510796, AA351893, AI982994, AA847341, AA778580, AA455202, AI734193, AI791227, AI732911, AI884404, AI734158, AA581317, AA636077, AA843542, AI815425; AI002863, W45215, M77964, AI890283, AI207534, AI867012, AA729628, W02419, R79396, AI816073, AC006084, AC004820, AC002369, AC002558, AC005383, AC007014, AL009181, AL050308, AC003071, AC004659, Z98950, AL132987, AC002350, AC005200, AL049699, AB023049, Z95116, AL021918, AL020997, AL109613, AC002492, AC004816, AL096701, Z85987, AL035089, Z82190, AC007501, AL049828, AC005775, AL031368, AJ246003, AL021394, AC005553, AC005535, AL022322, AL121658, AL049838, AC005529, AC006211, AC005102, AL031587, AL049830, AC005574, AC002115, AF124730, AL079342, AF111168, Z83843, AC007686, AC000025, AL008582, AC005527, AL022578, AC005630, AC001644, AC004386, Z97876, AL117344, AC005089, AC005037, AC002316, AL133275, U51561, AP000275, AP000037, AP000105, AL020996, AC004987, U91327, AL049643, AL049709, AC005099,

HBMTU03	279	924979	1 - 292	15 - 306	AL021937, U73643, AC004073, AC006509, Z93023, AC000111, AF111169, AC007283, AC011311, AC004812, AF001552, AC005372, AP000501, AC002553, AF006501, AJ243213, AL122023, AC004686, Z73417, AL035086, AC005224, AC008014, AC007066, and AF011889.
					T41134, H61871, AI962094, H65010, AI915081, T83057, AI445774, N54397, H62550, AI370470, AA135761, H68343, AA385775, AA847064, D51809, AA161305, AI187148, AA371410, R70883, R70884, AA747757, F33037, AA722146, D51877, AA133332, AI571161, F17529, AI559304, AA584594, AA633039, AA298365, AA584493, R92563, AA297006, AW276683, AA664126, R19199, T48723, AA838091, AA602971, AA584183, AA935409, W39287, AI619994, AA714011, AW245860, AA719523, AI800426, AA445951, AI697242, AA653291, AW237905, AA236867, AA487209, N27874, H63660, AA583386, AI049955, F35684, AA587215, AC002091, AL024498, AC006512, AL031597, AC003982, AC006487, AL022165, AC004000, AL049856, AL135744, AC007565, AC003042, AC006023, AF217403, AC004752, AC002492, AC007193, Z98200, AC005003, AF196970, AL121603, AC006211, AL109798, AC005324, AC004821, AL022315, AL020997, AC005089, AC005914, AC006432, AL022302, Z93023, AC004854, AL133245, AL050332, AC008072, AC002470, AL034421, U29953, AC005736, AL096701, AL031681, U66536, AC007792, AC005670, AC004098, AF111168, AC005837, AC007774, AC002073, AF196779, U89337, AC005682, AL109952, AC005921, U91326, AC005225, AC005081, AC004383, AC005940, AC005531, AP000503, AL022336, AF053356, AC005391, AL031053, AC005844, AL009179, AC006241, Z98304, AL049776, AC005330, AC004967, S42653, AL034429, AF045555, Z85987, AC000120, AC005911, AC004531, AC003029, AC005015, AC005562, AF001549, AL009181, AL034420, AC005519, AC005318, AP000030, AP000212, AP000134, AC005800, AC004491, AL031311, AL035400, AL031447, AC004552, AC006071, AC005899, AF196972, AF207550, AC005696, AL049757, AP000704, AC004034, AC016027, AC006001, AF134726, AL022149, AL031432, AC004955, AC005057, AC005231, AC005747, AC016830, AC005484, AC002477, S79836, U73647, U11297, AC005520, AC004686, AL022311, U80017, AL078581, AC006480, L48038, AL031295, AC002544, M63544, AF181896, AF130249, AF190465, AC004477, AL049761, AC004152, AL035671, AL136295, AC000062, AC005726, AC005786, AC003051, AC007308, AC005808, AC003041, AC006101, AC002116, AC006387, AC005829, AC005277, AC005091, AC005924, AP000116, AP000510, AC006285, AL139054, AC002312, Z97353, AC007327, AP000251, AC004812, AL133243, AL031670, Z97183, AP000512, AL049557, AC004583, AL078639, Z97832, AC003013, AC006441, AC004895, AL023575, AC004655, Z99128, AC004858, AC005568, AC006035, AL009183, AC004598, U47924, AL033392, AP000350, AC005332, Z82201, AC007685, AC005261, AL031737, AC006236, AL035422, AL031255, AC004217, AC000353, AC009308, U62317, AC004796, AL021366, AL031985, AP001053, Z69837, AL109827, Z85986, Z81364, AL031595, AL034417, AC002378, Z69666, AL031985, AC005527, X55448, AC005598, AC004534, AC007993, AL031848, AC005632, AL034549, AL031005, U95739, AL022326, AL121852, AC006115, AC004797,

HBMTW58	280	1 - 651	15 - 665	Z98885, AC004843, AL021155, AC009516, Z69705, AL031291, AC002310, AC008372, AF001548, AC004979, AC005331, AC004999, AC005768, Z83846, AC000026, AC004883, AC005193, AL035423, AL022721, AC006273, AC007878, AC002404, Z83822, AC001227, AJ003147, and AL035071.
HBMTX29	281	1 - 139	15 - 153	
HBMTX84	282	1 - 338	15 - 352	Z93017, and AL009181.
HBMTY82	283	1 - 316	15 - 330	
HBMUA62	284	1 - 330	15 - 344	AI064768, Z98753, AL031681, Z95703, AC000354, AC007036, AL135746, AL109653, AP000516, U82672, AL133512, AL049648, AL033530, AC004986, AC002357, AL049554, Z83850, AC006152, AL022164, Z75895, AC010349, AL022310, AC004191, AB014088, AL096803, AL021812, AC002069, AC011604, AF121898, AC005323, AC006354, and AC004930.
HBMUD12	285	1 - 306	15 - 320	AL122020.
HBMUF60	286	1 - 311	15 - 325	AC007536.
HBMUG57	287	1 - 303	15 - 317	AL096791.
HBMUH62	288	1 - 329	15 - 343	AI312718, AC005023, Z95118, AC005041, and AL034548.
HBMUJ84	289	1 - 243	15 - 257	
HBMUK59	290	1 - 462	15 - 476	
HBMUN30	291	1 - 559	15 - 573	AF015720, AJ229041, AC005829, AL031283, AC000134, and AL031255.
HBMUO10	292	1 - 316	15 - 330	
HBMUO12	293	1 - 178	15 - 192	AL022313.
HBMUO90	294	1 - 311	15 - 325	
HBMUP35	295	1 - 236	15 - 250	
HBMUT83	296	1 - 462	15 - 476	AW080842, AI126237, AA033525, AI288602, AA070152, AI200312, AW293916, AI738708, AA033526, AW182578, AA961647, AA808104, AA884100, AA410505, AI635980, AA580797, AA748547, T71568, AI004853, AA975024, AI674097, AA988905, T82022, AL133609, AL137420, and Z94722.
HBMUV03	297	1 - 394	15 - 408	
HBMUY32	298	1 - 234	15 - 248	
HBMUZ96	299	1 - 208	15 - 222	AL020995.
HBMVA83	300	1 - 275	15 - 289	AL043165.
HBMVB14	301	1 - 685	15 - 699	AA160290, AA357550, AW377670, AA046565, AA447158, W42824, and N21687.
HBMVT79	302	1 - 227	15 - 241	AC020663.
HBMVI94	303	1 - 191	15 - 205	
HBMVO02	304	1 - 598	15 - 612	AL109839.

HBMWA31	305	1-406	15-420	AW291592, AA135499, AI949732, AI367157, AI040759, AA682731, and AA764743.
HBMWA57	306	1-202	15-216	AC002470.
HBMWI35	307	1-367	15-381	
HBMWJ01	308	1-635	15-649	AI621074, AA648509, AW103842, AII33256, AF118079, and AL133216.
HBMWL30	309	1-309	15-323	
HBMWL91	310	1-202	15-216	
HBMWQ85	311	1-397	15-411	AW377503, AA007382, W23548, AA001311, H53191, and N78201.
HBMWV93	312	1-439	15-453	
HBMWX74	313	1-310	15-324	AC004223.
HBMWZ14	314	1-311	15-325	
HBMWZ16	315	1-482	15-496	AI436109, H27387, AI889289, AI027575, N79584, AA828426, AW014938, N79587, AII74444, AI143425, AW247147, AA826017, T59414, AW087276, AI434510, AI913074, AI351503, AI200849, AI921728, AI222784, H11717, AI246366, AI936789, AA281074, AI093047, AW004642, AI826923, AA857401, AI313190, AI589862, AI581002, T66176, H14297, AI313169, and AI658705.
HBMWZ94	316	1-334	15-348	
HBMXB31	317	1-298	15-312	
HBMXF47	318	1-66	15-80	
HBMXG08	319	1-405	15-419	
HBMXH68	320	1-584	15-598	
HBMXL10	321	1-385	15-399	
HBMXM65	322	1-467	15-481	Z55829.
HBMXN39	323	1-348	15-362	AI054090, AI246061, AI284543, AA297207, AI249853, AI251241, F33126, AI254770, AII33514, AI251944, AI251034, AI251203, AI251284, AI250552, T93105, AI690497, AA502098, AI300054, R51582, AII60786, AI223626, AA779667, AI421723, AL119156, AL119182, AW019964, W63553, AA378207, W81372, AA714011, AI866970, T08386, AW303098, AI570019, AI749306, AA558366, AW069227, AA492114, AA664126, AI368873, AA805989, H86579, AI889579, AI634187, AI457313, AA772704, AA745628, AA582746, AA491767, AA938727, F35684, AA657910, AA837771, AA831408, AI619994, AA584493, AA769141, AA302934, H95822, AA587215, AI858272, AW161016, H78984, W95552, AA078128, T64444, AA890060, T39230, AA568747, T51556, AA973913, AA244406, AW236277, N25079, AW392414, AL134940, AII10760, T61928, AW169390, U46402, AI658702, AA122310, AC007406, AL022726, AF196972, AC005881, AL022320, AC006270, AF178030, AC006576, AP000501, AC004813, AC009248, Z99128, AC005899, AC012627, U82828, AC006084, AC008123, AL049694, AL109963, AC002425, AC005157, AP000011, AL031432, AF196779, Z98304, AC005291, AL135744, AF165926, AC005516, AC005529, AL133246, AC004812, AC005519, AC005082,

Clone	No.	ID			Accessions
HBMXN69	324	731274	1 - 356	15 - 370	AL031311, AC003982, AC003080, AC006344, AC003080, AC007447, AP000309, AP000048, AP000116, AL078581, AL109758, AF042090, AP000086, AL031003, AL096701, AL024508, AR036572, U91328, AL117337, AF205588, AC007014, Z84487, AC006538, AC002045, AC004526, AC002059, AL023807, AC006079, AC000025, AC005736, AL121655, AC005527, AC005411, AC005189, AF165176, AC006450, AC005754, AC007676, AC003109, AC003684, AF117829, AP000557, AL031230, AF049895, AC002470, AC005919, AC007363, AL024507, AC002302, AL022318, AC004876, AL024474, AC002470, AC005919, AC007363, AL024507, AC031584, AC007637, AC004674, AC005925, AP000282, AL021394, AP000066, AC003093, AC005914, AP000014, AL031584, AC007312, AL110122, AC004682, AC007066, AL078477, AC005325, AC004674, AC005925, AP000925, AL021394, AL109628, AC007685, AP000692, AC009509, AL049760, Z97180, AP000040, AP000108, AF184110, AC002544, AF196970, AC005562, AC005180, AC003967, AL049834, AP000213, AC004849, AP000135, AC007993, AC004025, AJ010770, AL022238, AP000031, Z95152, AP000313, Z97053, AC006059, AC004651, AD000813, AC005846, AC002039, AC006509, AC004000, AC007387, AB001523, AP000555, Z97635, AL031668, U70984, AF196969, AL021920, Z94056, AC009247, AP000050, AC007279, AC005913, U91318, AC006285, AL021978, AL008719, AL109756, AC005920, AC007023, AC003041, AB020874, AC005755, AC006480, AC005871, U91321, AL049553, AF019406, AC007129, AC004598, AC005800, AC004859, AJ251973, AF053356, AP000355, AP000117, AC005274, AP000503, AC007227, AC002492, AC005737, AF064864, AL035455, AC002365, AC004765, AL035443, AC004560, AL133485, AC003665, AL035405, AC005049, U91326, AC000379, AL121852, AF091512, Z85987, AC004491, AJ003147, AF134726, AC004893, AP000552, AF180748, AP000321, AC000118, AD001502, AC002554, AP000260, AP000193, AP000099, AP000121, AL049643, AP000036, AL008707, and AC010170.
HBMXO08	325	959768	1 - 336	15 - 350	AI934342, AI652289, AI749542, AI708414, AI659752, AA521117, AI685658, AI469153, AA810054, and AA749006.
HBMXP90	326	574802	1 - 576	15 - 590	AI206408, AI765081, AW117539, W76554, W47134, AI282130, R00077, AW139096, AI970492, F10866, AW003300, AI492386, AI473105, AI699748, R38163, AF007132, and AC006055.
HBMXR44	327	693123	1 - 400	15 - 414	AA094354, AL120141, U49973, Z99128, D83253, AP000150, AP000009, AC007297, AL031781, AL022333, AC018633, and AC004382.
HBMXS38	328	706039	1 - 654	15 - 668	AA806368, and AI811425.
HBMXU37	329	787155	1 - 512	15 - 526	AA354804, H95288, and AC004472.
HBMXW13	330	657241	1 - 408	15 - 422	AL035461.
HBMXW73	331	764440	1 - 338	15 - 352	AA634933, and T63384.
HBTAE07	332	953607	1 - 543	15 - 557	AA618452, AA478355, AI284640, AA493695, AI046409, AA453558, AI133297, AL045808, AL046156, AI270117, AI345157, AA490183, AL583283, AW275510, T06754, AW438555, AI499588, AW149313, AI584167, AA775143, AA836811, AA483929, AL042753, AA938105,

AW023990, AI963720, AI471887, AA954924, AL119691, AL046266, AA912099, AW163293,
AA309257, AA224525, AA533333, AA493136, AW161966, AA019312, AD247199, AA661921,
AI687343, T74382, AI445674, AI828710, AI873852, AA508359, AI313166, AL138455,
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AI370074, AI431303, AW438643, AA812281, F00107, AW084466, AI311927, AL037683,
AW270343, AI305766, AA838190, AW168618, AW193265, AI559705, AI567076, AW069769,
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AI732120, AA013124, AA747070, AA580808, AA372481, AA623002, AW408047, AA523833,
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AI953275, AW104030, AA603185, AA826671, AA724333, AI307608, R07710, AI084294,
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AC005488, AL049776, AC005859, AJ010770, AL031281, AC005783, AL096770, AC004901,
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HBUAG42	333	676856	1 - 349	15 - 363	AC005231, AP000311, AC005065, AP000025, AC006530, AP000014, AC004691, AL078604, AL033392, AC004970, AC005066, AL031311, AL049709, AC006344, AC006384, Z98941, AL023284, AC007043; AC009516, AL031983, AL035697, Z94277, AC005387, AF068862, AC005599, AC007877, AC005968, AC006160, AC006058, AC000111, AF042090, AP000065, U18394, AC006479, AC007051, AC006972, AL008720, AP000088, AP000044, AC004612, AL109865, AC006989, AL121934, AL035659, AP000345, AC002385, AL133445, AC002553, AC002402, AC005701, Z98884, AC005228, AC004986, AC004672, AC007151, AC004626, AC006312, AC004210, AC007656, AL031848, AC002077, AC005102, AC004388, AL117329, X55926, AL021393, AC005839, AP000123, AP000055, AP000170, AP000114, AP000046, AC003085, AL031681, AC006539, AC007314, U95742, and AC002470.
HBYAA17	334	924209	1 - 213	15 - 227	AF108138.
HBYAB40	335	463488	1 - 307	15 - 321	AI310343, AA559205, and J03059.
HCFAA38	336	576731	1 - 408	15 - 422	AA713872.
HCFAC84	337	869259	1 - 626	15 - 640	AL031733.
HCFAF63	338	689719	1 - 404	15 - 418	
HCFAT85	339	728254	1 - 333	15 - 347	AA527109, AA533660, AF205588, Z83820, and Z82200.
HCFAU41	340	576064	1 - 452	15 - 466	
HCFAU74	341	576069	1 - 201	15 - 215	
HCFAV46	342	924086	1 - 515	15 - 529	AL110393, H58351, AA564859, H58740, AW074398, AW023672, AA714595, F37169, AI561335, AW086257, AA626678, F37223, AA878495, AA558697, AA515435, AI205126, AA366035, AA654627, AA626747, W60516, AW302322, H64777, AA077817, AA748121, AW268338, AI648558, AA355281, AI867044, AI198376, AI284640, AW088058, F36273, AI053907, AA652057, AA649642, AI865364, AA308806, AL036523, AA317170, AI016000, F19258, AA434484, AA095511, AA605274, T40617, F32705, AA663922, F36373, M78150, AI252884, AI110770, AI446638, F29989, AI888926, AA342901, AA318652, AW406447, F25135, AW301937, AI281881, AI281903, T40338, AW265654, AI567577, AI358343, AI026770, AW419262, AI200051, AI053672, AI435544, F18974, AA059154, AW166815, AA127354, AW151884, AA377730, AI471543, AI358229, AI471481, AI924251, AI061334, AW406755, AA321311, AA125788, AI824562, AW080134, AI688846, AA515224, AA127353, AA831388, AI365988, AA745410, AA908687, F36404, N71724, AI334443, AI963720, AL120483, AI298710, AI654588, AA569187, AA913549, AI630203, AA663306, AA177061, AA704643, AA338431, AL120295, AA557879, AA565666, F28576, AA446955, AA483034, AI569086, AI350211, AW193265, AA661948, AI446464, AA904218, AI654529, AA173238, F35113, AI635272, AW264973, AA650244, AD86356, AI144330, AL042753, AA559290, AA327323, Z98473, AI623898, AW193432, AAI76924, AI343173, AI375710, AA559290, AA327323, Z98473, AB41664, H56013, AA610491, AI160582, AI160491, W95976, AI890918, AL046409, AI709365,

AI344844, R72458, AA252763, AI287651, W95841, AA350859, AA737154, AI431303, AI286264,
AA226715, AI744739, AW167267, AI049634, AA659083, AL041733, AW236342, AI499094,
AL119691, AI281465, AI287528, AA913114, AI335378, AA626404, AI962050, AW069807,
AI079910, AL037291, F34498, AI151261, AI474085, AW265393, AA299115, AL039958,
AI084303, F28876, H64560, AI146484, R98967, AI613280, AI904894, AW029038, AI251002,
AI439360, AI761471, AA482711, AW264969, AI610159, AW265294, AI929531, AW338086,
AI499503, AA743956, AI281697, AA362700, AW129001, AL138265, AW238016, AA665330,
AI160117, AW270270, AA515751, AI674873, AA640272, AA584581, AC007277, AC005562,
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AC004485, AC007899, AL049611, U14718, AC006213, U14716, U02048, AC007021; AC006132,
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AF002991, AL031679, U11309, X54181, AL023875, AL049780, AC012380, AC004460,
AC006019, AL031447, AC004768, AC005632, AP000141, AC000095, AL133289, AL021920,
AP000143, AP000010, AC004452, AC004979, AC003007, AC000046, U18390, AC005776,
AP000228, AL049569, AF006752, AP000090, AL049775, AC005808, AL109733, AC016025,
Z98046, AP000140, AC003950, U14691, U14685, U14686, U14687, U14688, U14699, U14710,
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AC005318, Z86090, AF134726, AC006064, AP000503, AL096734, AC012599, AC005521,
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AL078596, AL035681, AL049709, AC004030, AF104455, AC002522, AC000118, Z94721,
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Clone	SEQ ID	Range	No.	Range	Accessions
HCFAW03	343	1 - 330	924532	15 - 344	and AF217403.
HCFAY27	344	1 - 254	784950	15 - 268	AI952593, AA402934, and T24885.
HCFAY33	345	1 - 166	576058	15 - 180	AA680371, and T85563.
HCFBA96	346	1 - 176	853961	15 - 190	AC005969. AI613235, AA903469, AA813305, F25776, AW071554, AW150820, AW194200, AI983597, AI246999, AW004802, AI364662, AI282522, AA628330, AA229754, AA526614, AI365012, AI299507, AI918967, AI553849, AI560300, AI950742, AW075387, AA868647, AA447147, AI690364, AA411518, AA713800, AA953331, AI094450, AA682774, R96820, AA302484, AA872093, AI300639, AI015741, AA130713, AW262508, AI051521, AA496620, AA978132, Z38471, AA736839, F31462, F18178, AI350873, AA805472, AA988865, AA496495, T24559, AI081865, AI144428, H61569, AA373811, AA229480, AA132945, AA703237, AA229962, AI690503, AA745775, AI720505, AI453250, AW009901, AW015954, AW118526, AI249388, AI282565, R56834, AI219656, AI285115, AI369774, AA461097, AW130721, AW339140, AW273429, AW148657, AI538694, AA065282, AI866733, AI874208, AI199700, AI805844, AW008035, AI829142, AW337251, AI983830, H46569, AI814591, AI818220, AW269978, AW168266, AI186921, AA229233, AI610303, N34882, AA832328, AA923506, AI078009, AI301063, AA670351, AI203695, AI339100, AA987523, AI803837, AI751711, AI445423, W94943, AA449775, AA280728, AI017038, AW276596, AI423558, AI828679, AA677814, AI954092, W68425, AI754933, AI799656, AI092937, AI277972, AW274402, AI310725, R59097, AI279557, AI310726, AW410249, AA526185, AA573897, AI078388, AI741564, AI147456, H98073, AW410004, AI300518, AA526998, AI721118, AA522451, AA508660, AA004278, AW182880, AW411240, AI953077, AA533655, AI283484, AI970703, W90665, H56058, AL120205, R10734, T73441, AI591031, AI741030, AW270071, AI827198, AA628743, H25535, AI972733, AI927014, T51235, N91829, AA853526, AI860745, AI887607, AA580297, AI348361, R56835, AA229196, AA858412, AA102712, AA228723, AI535963, H26397, AA526103, AW189969, AA229458, AA644220, D25820, AW410257, AA557419, AF151822, AF176006, AF189289, and AF192559.
HCFBB14	347	1 - 233	658542	15 - 247	AA223831.
HCFBD91	348	1 - 141	850449	15 - 155	AF172244, and Z74023.
HCFBF07	349	1 - 286	953506	15 - 300	
HCFBG82	350	1 - 551	870890	15 - 565	AI127475, AI871007, AA142876, AI523587, AI830621, AW134689, AI825831, AA773904, AI862655, AA143146, AI768600, AA576383, AI307774, AW274750, AI916645, AA633463, AI334590, AI867665, AI867677, and AW152392.
HCFBI39	351	1 - 330	576018	15 - 344	
HCFBI80	352	1 - 466	576669	15 - 480	
HCFBL08	353	1 - 289	959617	15 - 303	
HCFBN62	354	1 - 628	576126	15 - 642	AA553332, AA343810, AI354333, AA496309, AA745302, F01222, N70957, AA757869,

Clone	SEQ	ID	Range 1	Range 2	Accession numbers
HCFBO39	355	835926	1 - 423	15 - 437	AA584597, AW277135, AA297698, AA532875, AI146266, AW249720, T30864, AA484256, AW084161, AA295874, AA295865, AA225358, T63747, AA167549, AA229842, AI866971, AL096766, AC006285, AL133163, AC003663, AP000501, AC004927, D87675, AC005237, AC006285, AC005089, AL031587, AC005215, AF111168, AL031176, AL034429, AL109801, AL121655, AC004821, U07561, AP000359, L78833, AP000555, AL133241, AL022323, AC016025, Z95114, AL117258, AP000343, AC002432, AC004216, Z93017, AL031276, AL035071, AL050302, AL049569, AP000263, AC002395, AC005483, AP000036, AL049692, AC005387, AL096791, AP000088, AL133448, AC000397, AC005808, AC006315, AL022163, AC002106, AR004690, AC006430, X87373, AC005358, AC004983, AC005621, AC009069, AL096703, AC008150, AC005755, AC005102, Z98884, AC006211, U82757, AC005740, AC006128, AC005527, AB016897, and AC004476.
HCFBO76	356	577218	1 - 301	15 - 315	AF031077, AF031076, AF031078, and AF030876.
HCFBR92	357	576864	1 - 463	15 - 477	AI028522, AI040333, and AI055988.
HCFBS25	358	828076	1 - 326	15 - 340	
HCFBS73	359	506244	1 - 484	15 - 498	F19258, AI820743, AI003172, W60516, AI003743, AA551509, AL038785, AW104748, AI365988, AA635417, AI205126, AI762575, AA229785, AI914706, AI350211, AA584749, AA557325, AA483204, AI962050, AA340003, AI917271, AW265294, F29989, AW166815, AA077935, AI358229, AI904894, AI567674, AW339687, AA856981, AI635272, AI815000, F28576, AI474713, AA973575, AI569086, AW080134, AI038279, AW337985, AA515051, AI079910, AI133636, AW130799, AI445436, AI890052, AI963786, AI929531, AL079645, AA482711, AI469003, AI433187, AI890923, AW162049, AL042856, AI679782, AA713815, AA077817, F31619, AA344959, AL119391, AA579184, AA077952, AL041368, AW440836, AA558269, AW029038, AW118011, AW105538, AI625244, N99715, AL040913, AW088202, AA228329, AI421213, AI471729, AB58343, AW003434, AI866807, AW264969, F36273, AL048144, AI499094, AI051551, AW069807, AI049722, AI339850, AW193432, AI284640, AW074398, AI149915, AA904218, AW406755, AL041412, AW088616, AI244254, AL120674, AA340960, C06327, AA365587, AI064952, AW265197, AI608626, AL046746, AI547286, AA743956, AI653515, AA228420, AI282907, AA837755, AA339076, H88666, AI251002, AW275664, AI305766, AA639025, AA601270, AI053535, AA745410, AW338500, AI963720, AI761471, AW327360, AI565873, AI468134, AA366035, AI922840, AI886060, AA078483, F31204, AI341664, AA826032, AI590038, T12272, AA501344, T29180, W49488, AI610159, AA533138, AI934307, AA516326, T55510, AW407220, AI720141, AA601218, AA381665, AA515128, AA365144, AI286264, C05755, AI688846, AA658235, AA826303, R89296, W38648, AA580662, AW131034, AI291047, AI935827, AI918421, N58729, AI886365, AI827234, AW151016, AW023672, AI821776, AW157005, AW193265, AI028510, AI613280, AW103239, AW419118, AA987962, AA669961, AA843450, AI637587, AI082510, AA133986, AI951928,

AA732212, AA659774, AA528441, AI061334, AI291823, AA492244, AI807372, AII24660,
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AI110688, AI368745, AA457639, AI355587, AI471481, AI890928, AI053476, AI053774,
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AA225195, AW238016, AL135643, AA535661, AA601492, AI537955, AI446601, AW102955,
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AL132992, AC005222, AL021977, AC004506, AC006011, AF015162, AC004189, AP000563,
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AF196779, AC004019, AC005341, AL031709, AC006132, AC005156, AC005207, AC005754,
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AB002329, AL033544, AP000049, AP000193, AF043945, AC005064, AF064866, AP000311, Z73986,
AF164343, AP000049, AP000117, AP000352, AL021808, AC007551, AC006480, AC007262, AC006374,
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AC006449,

Clone	No.		Range	Range	Accession Numbers
HCFBU01	360	916703	15 - 557	1 - 543	AP000292, AC004391, AF039905, AC006277, Z68328, AP000958, AC006561, AP000566, AL031662, AC005144, AC004636, AL022157, and Z84485.
HCFBU38	361	707620	15 - 287	1 - 273	AC011422.
HCFBU84	362	573546	15 - 461	1 - 447	AA654338, R11792, R18553, AA488229, and R33569.
HCFBU85	363	576010	15 - 269	1 - 255	AI817736, AI084181, and AI918987. AP000315, AP000118, and AP000165.
HCFBW13	364	828042	15 - 472	1 - 458	ZA2409, R59109, W78198, AW276841, R14684, AC004013, AJ010770, AB018346, AF091711, AF083037, AB019691, and AJ131693.
HCFBY02	365	920340	15 - 423	1 - 409	AI859280, AW392291, AI342622, AI598003, and AW167154.
HCFCA31	366	725700	15 - 435	1 - 421	R09578, AA676513, H10338, AA313594, AA336022, N25123, T32628, AL135366, N56063, ZA2875, R47343, AA411514, T55290, H40743, H40750, AA402101, AA496316, AA320228, AA040891, AB027196, and D87451.
HCFCB67	367	751764	15 - 459	1 - 445	AA862312, AI564185, AA702605, AA469451, AI368862, AI628288, AI904586, AI904594, AI742168, AA847499, AL042667, AL042670, AI679294, AW169038, AA481887, AI679871, AA827771, AI143840, R93642, AI623364, AF003626, AC006277, AC005534, AC002542, AL049759, AL021940, AL031848, AC005512, Z93930, AL021877, AC005488, AC005666, AL096712, AC004019, AP000133, AP000211, AL050332, AF134726, AC004913, AC007676, AP000503, AL034420, Z99716, Z97632, AC005280, AC007536, AC004596, AC002316, AC007731, AC005500, U47924, AC006441, AL033527, AC004526, AC000025, AL096701, AL022336, AC005971, L47234, AC008124, AL035420, Z95114, AF064861, AP000140, AC005529, AC004033, AC008372, Z98742, AC000120, AL008718, AL022320, AC005899, AF190465, AC005696, AL049776, AL109827, AC006207, AC005015, AC003977, AF048729, AF109907, AP000501, AC005932, AL135744, AL133371, AC009247, AL034429, Z82190, AF031078, AC004150, AF030876, AC002115, AL132987, AP000088, AC006121, AC005300, AL133245, AC007541, AC003950, AC004825, AL035703, AC009044, AL133233, Z84496, AC002470, AL022313, AC007308, AC006487, AC002558, AL022163, AC002425, AC004821, AC006455, AL022322, AC006273, AP000432, AL050318, AF111169, AC007878, AP000513, AL049869, AL096699, AC007066, AC005625, AC005871, AL031680, Z83819, AC005520, AP001052, AL031780, AC005605, AC007664, AC005255, AC005871, AC006312, AF002223, AL031597, AC002477, AL031005, AL031846, AC005255, AL021546, AC005060, AP000030, AC006538, AC005067, AC005839, AC006023, AC005232, AC008249, Z93020, AC002543, AL035683, AC007546, AL020997, AC005527, AC005484, AC005881, AL021391, AC005841, AC006111, Z84480, AB017602, AC005399, Z82198, AC005940, AC004228, AL035079, AC004796, AC005326, AL008635, AF001549, AL139054, AC005304, AL034417, AL121653, AC005237, AL079342, AC004750, Z82097, Z99128, AC005924, AF108083, AC000118, AL133163, AC005412, AC005920, AC005568, AL109980, AC004841, AC005546, AC004662, AP000049, AP000116, AC002472, AC008122, AC004832, AC003684, Z85987, AC004686, AF053356,

HCFCC57	368	577375	1 - 390	15 - 404	Z93023, Z93096, AC012384, AC006241, AC005231, AC004024, AC002310, and AC006042.
HCFCC68	369	753089	1 - 276	15 - 290	AW341274, AI458691, AI802196, and AA937243.
HCFCC94	370	670538	1 - 431	15 - 445	AC005776.
HCFCD44	371	883973	1 - 396	15 - 410	AC009731.
HCFCF47	372	894415	1 - 382	15 - 396	AI086865.
HCFCH47	373	720400	1 - 267	15 - 281	AC003072.
HCFCJ21	374	671028	1 - 179	15 - 193	AI472536, AL119457, AL042382, AW117919, AI625464, AI400725, AL041150, AI824576, AA911767, AI927755, AW265004, AI932915, AI554343, AI345416, AI073952, AW084425, AI345415, AI611348, AL042544, AA833760, AW161156, F27788, AI073952, AI280670, AL079794, AA603709, AI174394, AW022682, AL079960, AI874151, AI924686, H42825, AW163823, AI886022, AI932638, AI568114, AL038445, AI433206, AI866770, AI969655, AW080402, AW022699, AI954504, AI627880, AI523827, AI284484, AW268243, AI382201, AL120921, AI251221, AI345608, F35882, AI868204, AW148356, AI470651, AI269862, AI699011, AW167918, AW078800, AI345471, AI886753, AI866082, AI866741, AI784230, AI334450, AI916419, AI783861, AW193134, AW193203, AL119399, AL036638, AI494201, AW021588, AI800341, AI310332, AL037454, AL036403, AI249946, AW268220, AA814990, AL036215, AI648684, AI470293, AI521594, H89138, AI677824, AI582483, AW148716, AI866798, AI860897, AI382670, AI863321, AW089275, AI335426, AI348777, AI919500, AI352326, AI866127, AW168485, AI345148, AI627745, AI241923, AI624293, AI680498, AI280607, AW302988, AL120736, AI698391, AL121328, AA807088, AI623682, AI682652, AI613548, AI890907, AI284131, AI434453, AI628833, AW189415, AW168031, AW169653, AI344785, AL036214, AW167086, AI620284, AI582932, AL134999, AI469738, AI343059, AL040241, AW302854, AI280747, AA761557, AI799195, AI623622, AW152469, AI866469, AW149925, AL036396, AI358213, AI573026, AI349933, AB349004, AW162194, AI539028, AI348897, AI590423, AI310155, AA848053, AI345253, AI344935, AI934039, AI687065, AW090393, AI343091, AW150794, AI345677, AW058233, AI866820, AI358701, AW169604, AW149227, AI926878, AL110306, AI862144, AI583308, AI811684, AI889168, AI554821, AI568132, AI929108, AI335209, AW196105, AW193872, AI473598, AL046926, AL041772, AI367210, AI783504, AI929108, AI335209, AW073697, AI567351, AI446092, AI678480, AA983883, AI921386, AI698401, AI266436, AI689420, AA830821, AI288285, AI890806, AW050578, AI589267, AI685211, AI306705, AI955906, AI345746, AI612885, AW167448, W33163, AA494167, AW023859, AI590686, AI950664, AW192052, AI561132, AI637748, AL036673, AW089572, AI954422, AI680389, AI471361, AW051088, AI696969, AW172723, AW162071, AW059713, AW271119, AL038605, AW162189, AW020693, AL038565, AB371228, AI580674, AI344928, AL042440, AL037030, AW088134, AI349798, AA910956, AI680377, AI633477, AI680457, AI249962, AI288050, AL036718, AI587606, AI431424, AI686631, AI468872,

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HCFCM12	375	970835	1 - 846	15 - 860	AL119863, AL047387, AW268261, AW277066, AI889147, AW151714, AW189270, AL048644, AW129230, AF008439, I26207, I48978, Y11587, AL137292, AJ242859, AL137560, A12297, U35846, AL137429, Z72491, AF125949, A08916, AL137521, AL137476, A08910, I89947, A08909, A08913, I00734, AF113019, AF090934, E00617, E00717, E00778, AF079763, X65873, AL137556, AL049314, AF158248, AL137283, I48979, AL080158, AF111112, I89931, U49434, I33392, AL122098, I49625, AF100931, AL117585, X93495, AR038854, AL137273, AF028823, AF153205, AL117578, AF090903, A08912, AF177401, AL050138, X63574, AL137463, S61953, AB019565, AF113694, AF162270, A08908, U58996, AF017152, AL122049, AL049300, U96683, AL133568, AF146568, AF078844, Z37987, AF061795, AF151685, AL110225, AF104032, X81464, AL049466, AL133640, AL137271, I42402, U35146, AF183393, A93350, A03736, X83508, AF067790, L19437, Y16645, AL137557, AF118070, AL110196, A77033, A77035, AL049382, AF111851, AR059958, AL133075, AF090900, L31396, I66342, AL117440, S68736, AL117435, AF079765, L31397, AL050277, X72889, AF003737, AF113689, E05822, L30117, I09499, AF090896, AL080124, E02349, AL117583, AF176651, AF111849, Y14314, AL137533, AL080074, AF081197, AF081195, AR020905, AF026124, E15569, AL050108, AL137527, AL049464, AL117432, AL133565, AL133606, E02221, AF119337, AL133645, M30514, AL122111, AL110221, S78214, AF185576, S79832, AF139986, AL137480, AF022363, AF032666, AF000145, AL122123, D83032, AR011880, AF113690, AL133067, E03348, Y10080, AL117649, AF000301, A07647, AL133016, AL133077, AL137488, U42766, X53587, AR000496, U39656, AF159615, X84990, AB007812, A45787, U68387, AF113677, I09360, AF113699, X70685, AL137550, AL133014, U80742, AF090901, AJ006417, AL122110, AR038969, AF118094, A65341, AL137478, AL049452, AL080159, AF132676, AL133081, AF061836, AL137538, AL050116, AF125948, AF113676, AL096744, AL122118, U78525, AL122093, AL050393, A18777, AL122121, AJ012755, AR013797, AF017437, AF067728, I03321, AL049283, E06743, U67958, AJ000937, AL133080, AL122050, AF087943, AL049430, AR029490, AF210052, AL133665, AL117457, AF106657, AL080148, AL137294, E12747, AF106862, AF057300, AF057299, AL133560, A93016, AL080086, S75997, X82434, AL050024, AF118090, Z82022, AL117416, E07108, Y09972, E08631, U00763, Y07905, AL050092, AL133072, AL110222, AF061943, AL133098, X92070, AF113013, AL117394, X96540, I41145, AL080060, AF100781, AL137526, AF118064, AL133093, E04233, and AJ238278. H05227, AL134081, AI908615, and T79353.
HCFCN66	376	850422	1 - 422	15 - 436	H79453, AA053463, AA302978, AI310992, AI300818, AI619994, AI962030, AW083934, AW008074, AW270768, AI446205, AA480486, AA469230, AA486277, AW083678, AA176604, AA862029, T93109, AA228778, AI267884, AA302661, AI653776, AL039309, AW082104, AI250552, AI251034, AI185394, AI254770, AI284543, AI054090, AA501655, AA515351, AI915081, T94072, AI309059, F17537, AI583291, AI078409, AA904211, AI291037, AI567676, F32248, AA683069, AI251284, AI251203, AI223626, AI249853, AI421755, AW242031,

AA487209, AI271762, AA354695, AI049504, F35684, AW195271, AA420703, AW105729,
AW192518, AA429481, AA541532, AW073934, AI310343, AW194046, AA135761, AI889579,
AA410788, AW277174, AI216151, AI366555, AA573000, AI050076, AA553594, AA728894,
T48723, AW341882, T47075, AI082510, AA669961, AA664126, AA568314, AA745628,
AA513884, AW419389, AA579184, AA525253, AI251241, T41134, AW302017, AW023111,
AA484892, AW089950, AW341955, AI278972, AA704393, AI356440, AI306717, AA768179,
AW327751, AI521019, AI984168, AA947370, AA349606, F23262, AI254779, AA365586,
AI929531, R67701, AI872229, AA599710, AI268818, AI471455, AI340832, AI031759,
AA738014, AA721645, T93105, AA278496, N71619, AA715351, AA728861, AI572680,
AA493840, AI300054, AW169038, AI049722, AF111168, AC005280, AL050321, AL049843,
AF003626, AL133246, AC004834, AP000030, AC007510, I34294, AP000556, AL022333,
AC005015, Z98051, AL031985, AL022326, AC004491, AC005696, AL031280, AC005327,
AC005005, AL035587, AC005841, AC006275, AL031121, AC004552, AC004623, AC005288,
AL008726, AC004990, Z69719, AC003098, AP000354, AB001523, AC006241,
Z68276, AF039907, AL133245, AP000252, AC005031, AC005839, AC005559, AL133448,
AC000353, AP000212, AP000134, AC004999, U80017, Z85996, AC005914, AC004254,
AC003688, AC005037, AL139054, AL096701, AC006288, AC005632, AF001549, AP000044,
AP000112, AL096775, AC002381, AC002401, AC007731, AC005261, AC005500, AC005901,
AP000691, AC007688, AC007690, AC005902, AC008154, AC006597, AL035413, AC006487,
AC006539, AC006370, U81031, AC000028, AC002375, AP000692, X54156, U94788, AL021155,
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AL034395, AC003962, Z97056, AC004973, AC002472, AC002477, AC002119, AC006450,
AC006042, AC006468, Z69917, AL049873, Z98885, AC005972, AL109613, AC005788,
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AC004150, AL008719, AC006544, AC004659, AC004771, AC004643, AC007686, AL121754,
AP000501, AC004752, AF047825, AF053356, AP000300, AL080317, AC004103, Z84469,
AP000116, AC005800, Z82208, Z93017, Z98047, AL133355, AP000151, AL049780, AL008720,
AP000511, AL049631, AC007243, AL034420, Z96074, Z82244, AC003071, AC005004,
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AC005736, AC003667, AC002492, AC011456, AC002565, AC005220, AC004966, AC005778,
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	No.	ID	Range 1	Range 2	Sequences
HCFCN81	377	576871	1 - 581	15 - 595	AL078581, AC004851, AL031663, AL031282, AL009181, AC000025, AC004650, AC005180, AC004859, AC006464, AP000115, AC002476, AC006101, AL117354, AL031284, AC005535, AL133312, AC002390, AL031848, AC006537, AC006271, AC005723, Z83840, AC004707, AL034402, and AC008372.
HCFCP14	378	577277	1 - 318	15 - 332	R13709, Z44811, and AA084016.
HCFCP31	379	764750	1 - 431	15 - 445	AL043121, H26563, AA774273, and AA480145.
HCFCR76	380	862682	1 - 552	15 - 566	AL033547.
HCFCX73	381	575988	1 - 349	15 - 363	H80303, AI809174, AC005091, AC004671, AL031283, AC020663, AL034417, and AC002527.
HCFDB13	382	576709	1 - 325	15 - 339	
HCFDD48	383	720938	1 - 363	15 - 377	
HCFDE10	384	961270	1 - 411	15 - 425	AA126608, and AC003959.
HCFDE19	385	671507	1 - 550	15 - 564	
HCFDB79	386	575996	1 - 350	15 - 364	
HCFLC28	387	968304	1 - 344	15 - 358	
HCFLD28	388	850564	1 - 517	15 - 531	AW294229.
HCFLD78	389	773685	1 - 659	15 - 673	AA284537, AI161251, AA703386, AI144156, AI080716, T95314, H44601, R54003, R53410, AA707567, T95396, AI863960, AA705879, AA444145, AA443965, AL045360, AI819631, AI862146, AL119399, AI336575, AI289542, AW020397, AL043168, AI253379, AI620056, AW162194, AI698391, AI633125, AA587590, AW051088, AL046466, AW151893, AI638644, AI345415, AI890907, AI345612, AI590043, AI589428, AL042382, F27788, AL037454, AI800341, AA806719, AI345416, AI565172, AL043152, AI679550, AI567582, AI802542, AI042544, AI500061, AW089844, AW274355, AI884318, AL079794, AL119457, AI929108, AI637584, AI889189, AI470293, AL041862, AW152182, AI345688, AI923989, AI567513, AW051059, AW007309, AI479292, AI538850, AI866469, AI890391, AI538764, AL036187, AI817523, AI702073, AI473536, AL119324, AI433500, AI040241, AA808175, AL110306, AI267162, AI432644, AI954183, AW129659, AI673363, AL040241, AI038505, AI254814, AW059766, AA580663, AI446775, AI870192, AI969655, AW301344, AL038505, AI270183, AI690813, AI433157, AI589134, AI567769, AI469425, H89138, AI491710, AI270183, AI690813, AI433157, AI589134, AW021717, AI539800, AL119511, AI538885, AW022300, AL046618, AI282679, AW104056, AW021178, AL037582, AI245008, AL037602, AI540674, AI685080, AA975952, AW079572, AC008151, AF146191, AC005968, AL050309, AC005296, AC007458, AL050322, Z82206, AL050306, AL031732, AC005296, AC007392, AC007298, AC002464, AL035258, AL031904, U95739, AC018769, AC018767, AC002287, and AC009286.
HCFLE44	390	576679	1 - 339	15 - 353	
HCFLE95	391	945122	1 - 576	15 - 590	AI697165, AI434288, AA642239, AI818876, AA970105, AI271514, AI571352, AA411035,

HCFLF96	392	579039	1 - 330	15 - 344	AI371320, AA865735, AA134979, AI133257, AI536699, AW248707, AI198061, AW182002, AI261681, AI991804, AA344380, AI810573, AI685434, AA293139, AI699206, AA652700, AI688845, AI458014, R60967, AW007141, AA419241, AI089210, AI369965, AA489594, AW383812, AI739141, AC004707, and D13623.
HCFLG84	393	711243	1 - 425	15 - 439	AA978266, AL049780, and AC007055.
HCFLI49	394	722269	1 - 525	15 - 539	AA312278.
HCFLJ40	395	576068	1 - 324	15 - 338	
HCFLP31	396	698139	1 - 460	15 - 474	
HCFLR55	397	576043	1 - 243	15 - 257	Z84475, and AC006924.
HCFLR83	398	576054	1 - 576	15 - 590	AL043019, AL042433, AI142132, AW372827, AL134902, AI142137, AL119401, AL119443, AL042450, AI142139, AL042896, AL079687, AL039912, AL134525, AL119522, AL119396, AL042978, AL042544, AL042614, U46351, AL134536, AL042965, AL042975, AL119418, AL037205, AL042984, AL042542, AL119464, AL043033, AL043029, AL042551, AL119511, AL043003, Z99496, AR069079, AR043113, AR066494, and AR060234.
HCFLT42	399	576040	1 - 396	15 - 410	AA281808.
HCFLU12	400	970849	1 - 506	15 - 520	AL096816.
HCFLW58	401	964870	1 - 513	15 - 527	AA082673, and Z36960.
HCFMC42	402	670519	1 - 437	15 - 451	AI040051, AW438542, AI824541, AW021917, AA130647, AI004591, AI270476, AI061313, AA225044, AA878140, AW265090, AA582554, AW167154, AW103383, AI623563, AA862243, AA653139, T50676, AW105729, AA665181, AA610509, AI821044, AL039187, AI590458, AW302048, AA570740, AA483606, AI275183, AA955031, AW075132, AA568204, AI536625, AA658844, AA574442, AI745473, AA879053, AI598003, AA601278, AI559645, AA528480, AA664604, AI292236, AA528390, AA613627, AI590499, AI338426, R94354, AA121777, AI276298, AA191418, AA970967, AI017251, AT791659, AT753365, AI859280, AA598545, AA579566, AA224995, AA584482, AI654285, R94288, AA347114, AI244356, AA581460, AA572685, AW161636, AA618316, R96643, AC005822, U50871, M87914, AC006512, AI035588, S42653, AP000555, AJ131757, AC005399, AL049872, AF053356, AC005341, Z99716, AC005529, AC005057, AP000212, AF196779, AC005778, AL109623, AC005747, AC005899, Z69917, AC006965, AC002470, Z95114, AF134726, AL022069, AC005089, AC005907, AC004408, Z98884, AL021978, AF045555, AL009181, AC005971, AC005041, AC006480, AL049557, AL021978, AF187320, AC009498, AP000512, U85195, AL109952, AP000552, AC007685, AC007227, AC005391, AC007421, AC005288, U47924, AE000658, AL008726, AC006013, AC005588, AC002558, AC005225, AL139054, AC006600, AC004975, AL034555, AC005746, AC005484, AL121694, AC003665, AL035072, Z82214, AL050308, AC006953, AC005082, AB022537, AC004099, Z97056, AL034420, X84664, AC007052, AC007686, AL034548, AL033521, AC004386, AL035562, AL096776, AF196969,

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HCFMD15	403	975075	1 - 657	15 - 671	AC002504, AB023051, AL049776, AP000502, AL009178, AC004859, AP000496, AC002544, AC005049, AC007563, AB017602, I34294, D84394, AC002425, AC010582, AC004813, AC007201, AL031393, AC002477, AC002314, AP000501, AP000359, AL049694, AC002316, AC005520, Z95116, AC002418, AC005722, AL021154, AC002040, AL035587, AC007731, AC004623, AC005086, AC003688, X85812, AC005914, AL049759, AL031668, AL033527, AL079340, AC012085, AC004655, AC002430, AC002398, AL031427, AL117339, AC006538, AC002485, AC005527, AC009516, AF001549, AF047825, U96629, AC007878, AC007387, AL021918, AC003037, AF196970, AC006476, AP000556, Z97352, AC004472, AC006449, AC007384, AC005070, AC006530, AL022721, AL008718, AC008101, AC002457, AC003080, AC003663, AB003151, AC004799, AL050318, AL031228, AC005694, AL078593, Z83840, AC007250, AC002543, AC005318, AC006388, Z93023, AL008582, Z82203, AL049830, AP000134, AL034582, AF109907, AL022323, AL031311, D87675, AJ246003, AC007690, U63721, AC002301, AC007386, AC005378, AC006160, AC009247, AP000704, U91326, AL049553, AC005578, Z93928, AJ011713, AC005261, AC004913, AL078621, AC004019, AD000833, Z97053, AC010197, AC008079, AL031295, AL022318, and AC005500.
HCFMD23	404	676003	1 - 324	15 - 338	
HCFME27	405	576815	1 - 423	15 - 437	AL031283.
HCFMF47	406	973243	1 - 567	15 - 581	
HCFMF64	407	773342	1 - 812	15 - 826	AA243815, AW173441, AW173520, AA354361, AW082254, AI628870, AI936417, AI640772, AW293620, Z32860, AL049667, and AL022398.
HCFMG14	408	576063	1 - 354	15 - 368	
HCFMH12	409	970843	1 - 457	15 - 471	AI446464, AI284640, AA649642, AA515435, AW440976, AW236342, AI264743, AW383634, AA350859, AI623696, F32894, AA483034, AI273185, AI688846, AI205126, AA318652, H64777, T63104, AA470985, AA365347, AA558697, AA535661, AI053672, AA886584, AI064864, AA077817, AI471481, AI910609, AI251002, T07287, AA557879, AW193265, AW383542, AA605274, AA747472, AA513999, AW193432, AI334443, AW088058, AA593060, AW089810, AW272758, AW438643, AI350211, M62249, AI830390, AA177061, F36273, AI110770, AA601892, AI648558, R13151, AA229785, AI832782, AW276827, AI824562, AI590689, AI590958, AA714453, AW338086, AI046409, AI040313, AI608626, AF150152, AA331025, AI085719, AA368936, AI049722, AI281881, AW383628, AA328591, T06556, AW383440, AA369477, AI431303, AW383586, AA720702, AI282336, F19012, AA364224, AW406447, AI986251, AW029038, AW383605, F24284, AA593247, AW383624, AI962050, AI341664, AW383606, AI281903, T40077, AI286356, AA653221, AL120674, AI537955, AW261871, AA252763, AI287528, AI653905, AI367401, AW419262, AI367420, AI890923, AI352078, T08638, F37169, AI291124, AI499938, AW272641, AI687962, AA366820, H15679, AI049940, AA300016, AW272925, AW339568, AI929531, AI805380, AI418327, T40338,

AI702095, AW151896, AL041690, AI133164, AI186470, AI720431, AI148245, AI291268,
AI358571, AI684208, AI340453, AW249835, AW383455, AW383629, AA084070, F18974,
AI431232, F31204, AI287651, AL537030, AI753567, AA632407, AI677668, F33511, AW082063,
AA587604, AA704147, AA679672, AW276172, AA719805, AI282832, AW166815, AW168342,
AW025031, AA441788, AA626404, AA491762, AA745410, AI434695, AW162049, AA443695,
AI613280, AI754955, AI623898, AB39850, AB339440, AA338522, AI287451, AI133636,
AI567674, AW406162, AI567471, AI801591, AI270117, AA515051, AI364020, AW022379,
AA365302, AA079101, AA572975, W79504, AI341548, AI679782, T07451, AA100372,
AA526779, AI904894, AW338292, AI354587, AI917271, AI281465, AI252554, AI538928,
AA102047, AI613473, AI268812, AW383596, AA977743, AL079812, AW274349, W47444,
AA664535, AA321311, AW023672, AW270270, AI371070, Z93784, AL049869, AC003983,
AC004933, AC007056, AC005220, AL031846, AL035071, X87344, AC000067, AL035667,
I51997, M87916, AL022324, AC006062, AC006965, AC006055, AL096867, AC004947,
AC006212, X75335, Z84476, AB000882, U57005, U18393, AC004878, U18394, AL050308,
X55928, U18390, X55932, AC005013, S70697, AC005251, X54180, AC005909, U57009, U57006,
AC007126, AC005962, U91324, AL078463, U85195, S75337, M87919, S70694, AP000567,
Z98256, AL032821, U02054, U02063, AC005348, AB000658, AL096773, AC004638, X55925,
AC004963, AL133246, AC005015, AC005389, AF003627, AC004896, AC005246, AL034548,
AL035681, S70707, AF147277, U18392, U02058, U18391, AC006925, AL031680, AC006370,
AC004158, Z98946, AP000431, AB003151, AP000688, AC005502, AC002119, AC004537,
AF196779, U18395, U14719, AL109733, D83989, AL049636, AC005207, AC005915, U14701,
U14695, U14705, X55924, AP000346, U14699, U14702, U14710, U14685, U14686, U14689,
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U14718, AC005023, AP000302, Z68165, AC004815, AC007919, X55930, AC003029, AC002056,
AC006210, Z84474, AF090944, AF077058, AC006336, AC005019, AC002366, AL031311,
X55926, AL133238, AL049835, AC000124, U14703, U14688, U14687, AL035407, AC005544, AC005341,
AP000046, AC005581, AC000124, U14703, U14688, U14687, AL035407, AC005544, AC005341,
AP000193, AC007100, Z30993, AL121603, AC006417, AC004220, AF038458, AL008728,
AP000050, AL031257, X55922, AF015156, AC007384, AF053356, AL049776, AP000311,
AC005696, AC004222, AC006996, Z94277, AC005082, Z49816, AL008718, AC003013,
AC007792, AF015147, AP000117, AC006241, AL008723, AC005971, AL078624, AP000017,
AP001053, X54175, AL031347, AF161343, AL008709, AC003007, AL080242, AC005284,
AC005763, AL008635, U63721, AC005552, AC004496, AL031589, AC008119, AC007421,
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AF111169, AC005575, U18396, AL121653, AC005699, AF094481, AP000557, AC020663,
AB020859, AC005003, AL022394, D42052, AP001043, AC004895, AL035494, AC005412,

HCFMJ70	410	576096	1 - 342	15 - 356	AC005385, U91327, U66059, AC004799, AL031258, AC006292, AC004996, U07000, AC004006, AC004841, AL022318, AC004987, AC003075, AP000460, and AC005822.
HCFMK25	411	576081	1 - 256	15 - 270	AA493118, and AL135744.
HCFMK27	412	576094	1 - 361	15 - 375	AC006388.
HCFMK49	413	576098	1 - 409	15 - 423	
HCFMK62	414	576097	1 - 423	15 - 437	AL031594.
HCFMK63	415	506251	1 - 365	15 - 379	
HCFML42	416	576667	1 - 451	15 - 465	
HCFMM81	417	506250	1 - 468	15 - 482	AC006406.
HCFMN07	418	953522	1 - 150	15 - 164	AC006978.
HCFMQ64	419	805822	1 - 664	15 - 678	R16166, AW245400, AI092564, AI298418, AI190180, AL135607, AA255476, AW341937, AA774687, AA232248, AI675174, AI356983, AA770006, AI500630, AI200144, AI339987, AW071871, AA350500, AA732754, AI086463, AA055479, AI080604, AI591153, AI090505, AI090526, AI619931, AI151262, AA765701, AI015327, AA173394, AA257977, AI857270, AW058653, AI858857, AI743631, AW131669, AI361482, AA171810, AA621676, AW072043, AA159603, AA165670, AA357206, AA070895, AI083788, AA643264, AA699650, AA373130, N29760, AW248832, AI401838, AI696781, AA086047, AI829320, AA232744, R44869, AA133807, AI089956, F09118, AI352487, AA369978, AA486761, AA182536, AA128868, AI699007, AA134215, AA977086, AI885043, AA232537, AA954867, AI086697, AA256882, AA457397, AA865872, AA757809, AA811925, AW377769, AA805830, AW006314, AI758593, AA045484, AI246878, AA421465, AI679033, AI587487, AI572423, T30157, AA515407, AW193414, AW085830, AI672912, AW196633, AA527495, AA568558, AA026270, AA594129, AI569433, AA864390, F03978, R51276, AW304405, AI017824, AI061053, AI074649, AW009091, AI560098, AA999878, AI888289, AI097160, AI587320, AW002779, AA725226, AI559525, AI017407, AI741332, AI911638, AI685232, AI890180, AW295035, AI991285, AW084565, AI859307, AA947282, AI090794, AW182337, AA844680, AA535324, AI014459, H28345, AA357685, AJ143713, R35871, AW129646, AA457115, AW044140, R67967, R26888, AI660218, M79078, AI742893, AI436778, AI718841, AW292472, AI818656, AA421496, AA664765, AA621134, AI719132, H65810, N74909, AW087942, AA457447, and AI811113.
HCFMT62	420	954213	1 - 560	15 - 574	AC006479.
HCFMY85	421	933017	1 - 298	15 - 312	AW362709, AF165294, AJ012376, and AF165281.
HCFMZ17	422	664132	1 - 475	15 - 489	
HCFNA30	423	772262	1 - 129	15 - 143	
HCFNB62	424	576446	1 - 336	15 - 350	AW002831, R69527, AA713735, AL118925, AA808982, AA745302, AA335519, AA429481, AW381847, AW381904, AA714073, AA364006, H43183, AA496309, AA577141, AA192366,

AI207476, AA297698, AA676875, AA587078, AI915081, AA295865, AA295874, AW080215,
AA367388, AA363027, R52008, AA477517, T83057, AA224807, H89581, AW117723,
AA663074, AA522500, AI439393, AA630122, H43771, AA532875, AI271985, AI342183,
AI798407, AA441810, AA728939, AA715418, AA225358, AW157731, T07346, AW377893,
AA772704, AA513125, AA525807, R87275, AI271766, AI368732, AA715075, AI870453,
AW074497, AL021368, AC000091, AL035405, AL022336, AF111168, AC008040, Z49236,
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AC008928, Z97056, Z95116, AC000353, AL133246, AC002126, AC006239, AP000555,
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AC006146, AC003663, AC006486, AL078581, AF196970, AC004821, AL031255, U95741,
AF042484, AC004531, AC006111, AC005609, AC005874, AF134471, AL021977, AC002404,
AL050308, AP000030, AC004583, AC004223, AC003108, AC005920, AP000269, AL135960,
AJ131016, AC004228, AC003957, AF030453, AC005753, Z93930, U63721, AL080248,
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AL049843, AF001549, AC004967, AP000212, AP000134, AC004125, AC005722, AC004030,
AC004150, AC006163, AC005778, AC004760, M87889, AC005081, AD000092, AL049692,
AC005924, AC005531, AF006501, AF064861, AC004794, AL023879, AC006312, AC005409,
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AF039906, AC004985, AC002470, AB023051, AC006449, AC005736, AC020663, AL008726,
AC007363, AC005231, AC005972, AC004991, AC005755, AC006165, AL049793, AC006509,
AC007565, AL031659, AF176815, AC007225, AC005331, AL121825, Z84466, AC002551,
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AC002492, AP000494, AP000556, AC005667, AC005412, AP000689, AC007065, Z95152, AP000556,
Z93023, AC007226, AL049776, AD000812, AB016897, AC002559, AC006088, AC005756,
AL122020, AL049779, AC004983, U91323, AL132987, AL109801, AL049569, AP000509,
AC004552, AC005011, AC005225, AC004770, AC005343, AP000014, AL031258, AL021154,
Z98036, AL031284, AL049646, AL022320, Z93020, AC008116, AL031276, AC005786,
AL031056, Z97630, AC004841, AC008134, AC004033, and AC004148.

AC005999, AL031012, AL078602, AC002485, AL022164, AL031429, and AC005539.

HCFNK43	425	973548	1 - 693	15 - 707	
HCFNO55	426	576008	1 - 359	15 - 373	

HCFNQ04	427	615351	1 - 888	15 - 902	T57391, N26420, AW340665, AI827647, AA280976, AA521364, AW340711, AI217472, AA429950, AW274378, AW340146, AI970154, AA906042, AI290997, AW188032, AC006208, and AJ003081.
HCFOB11	428	967196	1 - 126	15 - 140	AA648299.
HCFOE38	429	576005	1 - 302	15 - 316	
HCFOF90	430	561625	1 - 529	15 - 543	AI801107.
HCFOG82	431	576007	1 - 380	15 - 394	AA229738, and AA229023.
HCFOH56	432	577114	1 - 385	15 - 399	T71466.
HCFOI11	433	967195	1 - 316	15 - 330	AI066646, AI375684, AI755202, AI720301, AW130427, L42230, AC002128, AC005808, AC005327, AL031965, and AC008994.
HCFOL96	434	796104	1 - 482	15 - 496	Z30202.
HCFOO18	435	575965	1 - 387	15 - 401	
HCFOP42	436	460824	1 - 537	15 - 551	AA480486, AA469230, H81700, AA468356, AA502532, AW238495, AA018923, AI537800, AI609972, AA021561, AA768179, AA608561, AA362349, AA229159, AW392414, AA857812, H86221, AA429481, AA829036, AI267356, AA728861, H99700, AI279417, AA610233, AA773881, AA599080, AI648514, N91711, AI738863, AA558404, AI459733, AA715351, AA601680, N41775, AI267450, AA601212, AW302017, AI185394, H84412, AI471455, N70449, AA564925, W28961, AI280535, AA573000, H24957, AI340858, AI718323, AA376896, AI687343, AW440368, AA654482, F00688, AA351808, AA197019, AI583466, AI306232, AI251576, AA302661, AA297443, AI340700, AA302978, AA629852, AA228979, AI929796, AI933716, W63553, AA457754, AW328331, AA229823, AI253376, AW188742, AW150781, AA946848, AA507675, H67064, AA019003, AW328330, AI932871, H59651, N28624, AI306717, AL137946, AW274191, AA610381, AI249365, AL041375, AA362348, H58293, R69819, AI282629, AI249688, AA515168, AA648569, AC005318, Z95326, AL035088, L44140, AC007993, AC004859, AL133163, AC007056, L77570, AF130343, Z81007, AL080243, AP000503, AL021707, AB002345, AC004856, AF134726, U73644, AC004638, AC004985, AC000003, AC005005, AC005632, AL109967, AL008719, AC002306, M87889, AC006512, AL035400, AL034553, AC004646, AC005768, AC002985, AF207550, AF111168, AC004525, AC006455, AF111169, AP000348, AC005225, AP000349, AL023883, AC004587, AC005189, AC005696, AL096678, AC002350, AC004167, AC002064, AC003108, AC005027, AL023655, AC005569, U96409, AL109758, AC005207, AC005004, AC005071, AL022326, AC003007, AL031584, AP000350, AP000343, AP000555, AL022718, AC006050, Z94801, AC007057, AL049872, AC004817, AC002400, AL049569, AL009050, AC006017, AC005480, Z85987, AC009300, AC006315, AL121757, Z83820, AJ009610, AP001060, Z68285, AP000362, AC006948, AL118497, AL022316, AL096791, AL034555, AC005952, AC007308, AC004030, AF053356, AC002470, AC006013, AP000354, AC007684, AL031685, AC002302, AB015355, AC006509, AL035448, AC006360, AL121653, AL035458, Z70280, AC004967, Z95115,

Clone	No.	ID	Range 1	Range 2	Accession Numbers
HCFOP46	437	927654	1-390	15-404	AL049540, AP000229, AC002310, AL117337, AC005483, AC004855, AL121603, AL133500, AF141308, AL034374, Z97989, Z47046, AB020878, AL049759, AC005386, X58139, AF227510, AC007314, AC005666, AC004832, AC006207, Y10196, Z98257, AL031228, U91318, AC005907, AC004134, AC006121, AC003982, AL031846, AC002565, AL034429, AC005730, AF205588, AC011718, AC008079, Z99716, AC004961, AC008273, AC004895, AL035405, AL031587, U82828, AF042090, AL008716, AC005244, Z84572, AC004408, AL035587, AC002504, AP001068, AC007773, AL009181, Z93017, AC008132, AL031277, AC007160, AL049776, Z83856, AC002365, AL035086, AC007325, AL031651, AL121658, AC007981, AC007685, Z69707, AL008718, AC009516, AP000500, AC004929, AC005837, AC004821, AC009721, AC006071, AC006064, AL049856, AC003077, AP000695, AP000694, AF172277, AP000553, AC007546, AL021453, AF001550, Z84469, AC006262, AL034369, AC004808, AC003957, AC004933, AC005940, AC004857, AC004890, AC002524, AD000812, AC007386, AL022323, AC004996, AL031659, AC005399, Z96074, AC006111, AL133382, U62317, AC006453, AC002559, AC002312, AC005519, AC000029, Z83841, AC004222, AC004033, AC007099, AC007350, AC002395, AC005102, AC007790, L81577, AC005186, AL096701, AL133245, AC018633, AC004039, AC004623, AC006026, and AC005344.
HCUAA60	438	670941	1-54	15-68	AI749002.
HCUAD58	439	738408	1-302	15-316	AW134410, and AL042629.
HCUAE70	440	959686	1-223	15-237	
HCUAG89	441	706427	1-417	15-431	
HCUAG92	442	504395	1-314	15-328	AA342610.
HCUAH15	443	916651	1-217	15-231	T78930.
HCUAH60	444	916621	1-218	15-232	AI249862, AA911187, W52505, AW118534, AI085242, H72530, AP000555, D86995, AC004787, Z68870, AL021154, AC004491, AC004142, AL109758, and AG004032.
HCUAH70	445	574164	1-280	15-294	R70107, R69934, AL031681, AC005387, and AC003982.
HCUAI71	446	959492	1-334	15-348	AL049830, AC007280, and AC003982.
HCUAK23	447	676289	1-240	15-254	AL133485.
HCUAK49	448	574256	1-279	15-293	AA502860, AA593267, AA558227, AI446638, F35659, T58118, AL137954, AI963095, H73081, AW028429, AW148792, AL042756, AA487995, AI141675, AI215727, AW438916, AA487884, AI358501, AA579249, AI499094, AW069807, AW085991, AW193609, N27353, AW029280, AI884487, AI676218, AW130535, AI915068, T91187, R80865, AI761471, AI926681, AI860677, AI248679, AA680243, AI625570, AI039451, T65812, N66945, AI625468, AA383838, AA977743, AA629939, AI768952, AI125139, T08074, AA664535, R35972, AL048925, AI928866, AL037574, AA828662, AA339432, Z70688, AC003009, AC006252, AL080243, Z69650, AC005944, AC004167, AC005516, AC004141, AP000065, AC007766, Z84718, AP000351, AC003041, AI049745, AC004253, AC003665, AC005195, AC005668, AC005666, S43650,

HCUAL07	449	953876	1 - 442	15 - 456	AC006128, AC005376, AL035587, AC008071, AC002349, AI096701, AC004531, AL049780, AL139054, AC006530, AC002477, AC005066, AL109802, AP000503, AC004066, AC006600, AF201337, AL049776, AL035450, AC005548, AC008372, AF151680, X14448, AC000125, U78027, AP000692, AC006539, AC004837, AL035422, AL021808, AC007227, AC004216, U66060, AF200923, AC006123, AC007748, AL035451; AC004955, AL031846, AC005914, AL049823, AL023880, AC006480, AC005566, AL080238, AL049699, AC002074, U95740, AC006354, AL021937, AC006559, AC005736, AL023579, AJ239325, AL121655, AL022163, AC005924, AC004614, AC005060, AC007845, Z94056, AC004099, Z98884, AC002350, AC004963, AC004605, AC007056, AC004605, AF015155, AP000115, AC004638, AC006543, AL031588, AC003083, AL035461, AC005913, AC006449, AC005531, AL050321, AL049843, AL034420, AL049591, AL034343, AL009179, AB019437, AF111168, AC004797, and AL117375.
HCUAM57	450	574375	1 - 313	15 - 327	T91791, AW071109, AI087055, AA338281, AA225175, AA525157, AA973913, AI348567, AB370548, AC004000, AL121769, AL049759, AL021940, AC008115, AC008119, AC005288, AC005037, U96629, AC009464, AC007676, AC002349, AL079342, AL050317, U95739, AC007308, AC003101, AC007263, AL034549, AL136504, AC003962, AC005899, AF130343, AL122020, D87675, AL034429, AC004616, AP000141, AC005067, AC004890, AC002992, AC002302, AC007253, AC007240, Z82203, AC004685, AC004491, AC004953, AC005391, AC004132, AC015853, and AC006211.
HCUAM95	451	727174	1 - 243	15 - 257	AA613766, Z82901, and AL136520.
HCUAN44	452	574154	1 - 499	15 - 513	AA985143, AL133245, AC009239, AP000500, Z97183, and AL020997.
HCUAN49	453	577897	1 - 163	15 - 177	AA651923, AA765019, AA668900, AA968447, and AC004968.
HCUAN72	454	850140	1 - 191	15 - 205	AL049709.
HCUAO03	455	924902	1 - 311	15 - 325	AA595705, AI886736, AA765409, AC005011, AF196971, AC006530, AC005520, AC006236, and AB020875.
HCUAO28	456	850062	1 - 334	15 - 348	T94088.
HCUAQ92	457	506688	1 - 279	15 - 293	
HCUAR07	458	953872	1 - 147	15 - 161	AW167136.
HCUAT07	459	953869	1 - 484	15 - 498	AI042660, AA633908, AI791151, AW339562, and AI021396.
HCUAU02	460	920694	1 - 140	15 - 154	
HCUAU16	461	574193	1 - 294	15 - 308	
HCUAX57	462	934633	1 - 294	15 - 308	AI243475, AW183326, H22954, and F04138.
HCUBB28	463	685493	1 - 225	15 - 239	AA569686.
HCUBB46	464	577238	1 - 327	15 - 341	

HCUBE26	465	810522	1 - 99	15 - 113	
HCUBE27	466	574097	1 - 407	15 - 421	AA381762, M78032, AA381747, AW339422, AA470490, AI198718, AI590404, AW404225, AL045108, H62550, AA297207, H54511, N41775, AI915081, F35684, AW440368, AW247389, R69819, AA856866, AA501807, AI306717, AI309943, AW440568, N67313, AA565911, AA678932, AW081610, AI538236, AI824476, T94988, T74524, N84161, AA714073, AA665532, H12857, AI823705, AI925065, AI025930, C06004, AW088631, N68449, AW238253, AI889995, AI271762, AA745351, AA513851, AA678616, AW078821, AI962030, AA018923, AA012829, AW088656, AI653776, AA126814, T07225, AW019964, AA749152, AA496309, AA644223, AW338860, AA581498, AI620992, AA468494, AA552586, AW390284, AA630122, AI347665, AA846923, AI457389, AI568659, AA701131, AI417586, T40629, AA297662, H01852, AW082104, R93919, AL041924, AW080118, AI648514, AW084173, AI472736, T52822, AA579399, H40478, AI561241, AW021007, AW086291, AA309362, AI860535, AA584756, AA331158, AI053934, AA601653, H07953, AA744048, AI955360, AA745383, AL120976, F08866, AI053597, AI889579, H25938, AW328446, AI277373, AI278440, N70449, AA599080, T54144, AA368359, AI598056, AA862312, N54538, AI445557, AA179659, AL041240, AW265688, C06210, T40799, AI445338, AW265279, AA878492, AA434078, M77908, C15504, AI278972, AI446336, AA189097, AI049630, AA586433, AL079809, AA218631, AW242031, AW408767, T92394, AA339923, AA744094, AA654038, AP000065, AL049576, AC004655, AL034418, AC002429, AC005037, AL109984, AL031848, AC002288, AC007055, Z99716, AL049776, Z93017, AC004882, U62293, AC006449, Z84480, AC006539, AL096701, AC005562, AC006238, AC005057, AL031311, AC006211, AC004000, AC002302, AC009516, AL031680, AP000252, AF111168, AL135744, AP000689, AC005884, AC007676, AC007993, AC004966, AC004644, AP000555, AP000131, AP000209, Z83820, U91321, AP000212, AP000134, AC005871, AL109628, AC005519, AP000208, AP000130, AP000248, AC007227, AC005488, AL049757, AC006101, AP000247, AL139054, AC006578, AC007878, Z69733, AC005261, AL022721, U91323, AC003013, Z83826, AC004263, AL035249, AL121658, AC006480, AC005726, AF001552, AC003013, AC006121, AL031597, AL031846, AC005071, AL031767, AP000213, AC000025, AC004491, AC006121, AF146367, AC004938, AL049712, AL022323, AL133485, AL049569, AC006965, AL022165, AF146367, AC004859, AC002375, AC004520, AF111167, AL031291, AC008115, AC004855, AC007376, AC005015, AC004448, Z84469, U78027, AP000135, AL109952, AL031282, L35533, AP000552, AC004031, AC004662, AL035409, Z97630, AC005520, AC005399, AC004876, AL096791, AC006581, AP000557, AC006285, AL121653, AJ003147, AL080243, AC002425, AC005800, AL049653, AC005060, AC004895, AC004253, AC006160, AC005081, AC004125, AC004859, AC002375, AC004520, AF111167, AL031291, AC008115, AC005180, AC005730, AC006515, AL024498, Z84487, AL035422, AF124523, AC004887, D83253, Z93241, AP000031, U95740, AC004409, AP000356, AC000356, AC000353, AP000556, AL049795, AF109907, AC004878, AL133448, AF176915, L78810, AC003665, AL031657,

HCUBE55	467	574203	1 - 376	15 - 390	AL022163, AL021391, AC004522, AL109758, AC005412, AC004216, AP000008, AL035587, AC006120, AC006014, AL021978, AC005911, AC004150, AL049829, AL031005, AC004019, AP000967, AF129756, AC005291, AC006958, AP000704, AC003950, AP000688, AC002527, AC004999, U85195, AC004814, AF165926, AC006487, AC006077, AC004817, AC004858, AC003029, AC005295, AC007308, AL034420, AC002036, AC006026, AJ246003, AL049631, AC005089, AC016025, AC005088, Z99496, AL022315, AL031781, AC003109, AC000052, AL022396, AP000044, AC004382, AC006001, AC006511, AL022318, AP000345, AC004983, U80017, AF200465, AC005280, AB000658, AC004771, AC007773, Z83844, AP000215, AL031733, AL035684, AC005529, AL035071, AC006396, AC005913, U95742, Z98950, AL022320, AC004963, AC005011, AL136295, AL031659, AC005005, AC007533, AC002554, AC005874, AF134471, AP000697, AL050307, AC007066, AC007277, AC007546, AL034451, AL049872, AL031427, AP000697, AL035086, and AC002511.
HCUBG79	468	781681	1 - 177	15 - 191	
HCUBG83	469	537501	1 - 206	15 - 220	
HCUBH45	470	575720	1 - 121	15 - 135	
HCUBI13	471	862161	1 - 375	15 - 389	H93071, H50664, AW086257, AI754336, AA634786, AW021583, AI939442, AL138396, AW008317, T91187, T40617, AI307201, AI192631, AI804138, U91321, U52112, Z29373, AC005229, AP000337, AB012286, AL109801, AC004966, AC005089, AC004638, AC006449, AC006049, AP000215, AC002553, AC006582, AB023049, AP000961, AC009069, AL031577, AL035703, AC006312, AC007057, U76377, AC004485, AC006253, AP000513, AC009743, AC012599, AL022238, AC005081, AL049539, AF095725, AC005231, Z68870, AL021394, AC003012, AC004864, AL049557, AC004099, AC006237, AC007151, Z82194, AJ229042, AC004841, AL049776, AL031427, AC004520, AL035494, U80017, AC006441, AC005274, AC004913, AL033518, AC005695, AP000079, AC005049, AL117340, AC005067, AL023575, AC004770, AL023807, AC005145, AL122126, Z94277, AC004974, AC005335, AL031681, AC007537, AC004887, AC005790, AL049576, AC000353, Z94721, AC008928, AC011604, AL080243, AL031665, AE000658, AC005324, AC005519, AC005069, U85195, AC004257, AC005799, AC004820, AL031447, AP000354, AC005827, L44140, AC005780, AC005971, AP000959, AL132987, AC005255, AL079295, AC004253, X87344, AC004890, AC000069, AL049777, AL035683, and AL023576.
HCUBI14	472	574199	1 - 99	15 - 113	
HCUBI15	473	881192	1 - 338	15 - 352	
HCUBI38	474	792415	1 - 533	15 - 547	
HCUBI43	475	685512	1 - 115	15 - 129	AJ246003, and AL121658.
HCUBI49	476	961748	1 - 144	15 - 158	
HCUBI74	477	574235	1 - 388	15 - 402	

HCUBJI1	478	967484	1 - 314	15 - 328	D61636.
HCUBJ42	479	574265	1 - 312	15 - 326	
HCUBK01	480	917257	1 - 409	15 - 423	AI279417, AA558404, T05617, AI049955, AI568659, AI284536, AI251563, AA491423, AA610255, AI792695, AW302832, AI024511, AI792856, AL040816, AA629759, AA078384, AA635433, AW271095, AA381990, AL135377, AI948984, AI733946, AL039042, AL039041, AA775205, AI948959, AI733930, AA652910, H45698, AA838192, AA101744, AI792842, AI281622, AL043878, AI252190, T52745, AA557911, AA743968, AI815583, AW407632, AI732807, AI252141, AW328202, AI816537, AI280574, AL121287, AW337805, AI358712, AW275432, F01666, AI792746, AA847499, AI753672, AA642823, AW265155, AL048479, AA326452, AA324088, AI282629, AI798313, AL042373, AI245693, AII29421, AA326330, AA582746, AA683069, AW151018, AL118925, AA564925, AA303770, W24312, AL038977, AA460924, AI049845, AA772873, AI798041, AA579399, AI114657, AA536040, AI249365, AL096791, AC007025, Z82244, AC006312, AL049699, AC004185, Z97634, AC006026, AC007537, AC009247, AC007639, U80930, AC005670, AF157623, AL034402, Z98743, AC005725, AC005365, AC004668, AF006752, AC005338, AL021366, AC004963, AL117344, AC005072, AF024534, AC004031, AL050318, AC004254, AC005081, AL080317, Z97832, AL035495, AC005751, AC008123, AC002316, AC005086, AC004099, AC006012, AC004799, AP000109, AP000041, AL034549, AC000039, L47234, AL022238, AC007385, AC005952, AC006441, AL050332, AL049650, AL135744, Z83838, Z83826, AC006965, AC011331, AP000008, X62358, AL023807, AC002295, Z98747, AC002366, AF051976, AC004694, AC007773, AP000153, AP000704, M89651, AC000082, AC005300, AL031737, AL008712, Z97053, AL139054, AL031904, AC009294, AC008044, AC005587, Z99496, AC004531, AC007130, AC005661, AC003037, AL024498, AL023879, AC004778, AC007566, L81612, AC005037, D84394, AL022311, AF091512, AL132987, AC004663, AC006047, AL008582, Z83843, AC005736, AC005164, AL096803, AC000088, AC005088, Z99570, AL109628, AC000394, AP000509, AL008718, AC006236, AC000071, Z95118, AC004656, AF001552, AC005546, AC005695, Z84484, Z99716, AP000504, AL022326, AC004961, AC004686, AL080250, AP000347, AJ003147, Z95115, AC004013, AC006930, AJ010770, AL121754, AC004881, AC009363, Y12853, AC004097, AC005005, AC004922, AL049758, AC002544, AC005609, AC005666, AF130342, AC005753, AL117355, AC007565, AC005519, AL034420, AL049776, AC002545, AC005015, AC004921, AF129756, AC005632, AD000864, AC004851, AC005099, AC004750, AP000288, AC005280, AC005487, AL021578, AL031735, AC000353, AL049631, AL022717, AC003107, AC006597, Z82194, AL079304, AC009784, AC007201, U73643, AL031003, AL031387, AC003682, AL035461, AC007625, AC007899, AL024509, AC005041, AC007536, AL035462, AC005681, AL035460, AL021398, Z49208, AC005003, AC003012, U52111, AC020663, AC006946, AC005484, AC004583, AL109963, Z83844, AL031447, AF001550, AJ229043, AL009179, AL109798, AP000501, AL096757, AL078638,

					AB020877, AF087143, AL078581, AC006487, AC004132, AC007151, AC005568, AL035443, AL049792, AC006088, AC005011, Z84496, AC005225, AL031728, AL022718, AL021391, AL080239, AC007221, AC004771, AL035587, Z97352, Z68873, AC006237, AJ236701, AC007546, and AF134726.
HCUBK36	481	850132	1 - 492	15 - 506	
HCUBK39	482	577234	1 - 491	15 - 505	
HCUBK46	483	574120	1 - 368	15 - 382	
HCUBK49	484	574122	1 - 365	15 - 379	AI200051, AA714595, AW086257, AW406755, AA317170, AA610438, AA342256, AL118947, F32705, AW408063, AW069807, AI358229, AI345518, AA526193, AL037291, AA663306, AI281881, AA557879, AA652057, AA649642, AA569468, T40617, AI499094, AA503168, AI963095, AL118911, AI049634, AA670126, AA743972, AA095511, T63597, N27353, AW088058, AA125788, AW265393, AW196798, AW023389, AW028429, AI150670, AW406447, AI281903, AL037945, AI061296, AI355206, AL041368, H58472, W07032, AW406659, AL138242, W07122, AL134703, F29989, AI365988, AL133862, AI865804, AA491814, AA747889, AW339687, AA516225, AI038990, AI635272, AA932099, AW302909, AW008317, AA228420, T59509, H86301, AI446474, AL042420, AA318652, AI912322, AW407340, H86264, AI708009, AL119123, AI352078, AA720746, AW316969, AI796627, AW439558, AL048925, AA640979, AL036523, AI633007, AA838479, AI679713, AI801482, AA947370, AA349854, AA838477, AA121919, AA878495, AA658235, AA804993, R44592, Z97198, AP000503, AF134726, AC005067, AP000275, AC004614, AP000037, AP000105, Z94721, Z84814, AC007130, AC007690, Z32772, AL008721, AC020663, AL031662, AC000086, AP000701, AL022098, AC004841, AB020869, AP000017, AC005365, AC006001, L78810, AC007051, AC007919, AC000070, Z93016, AP000884, AC005754, AC004477, AP000962, AC002045, AC005593, AC007395, AL096766, AC002349, AC004760, AP000159, AC004891, U91325, AC004534, AL132712, AB003151, AP000688, AC004688, AP000159, AP000018, AC006111, AC004799, AC004820, AL031587, AL035450, AL096701, AC007240, AL080317, AC004991, AC005081, AC004814, AC007024, Z73358, U91319, AC003009, AC003005, AL035535, AL109758, AC006064, AC005329, AC005887, AL034402, AC005880, Z95152, AC002365, AC010175, AC005829, AC007970, U73638, AC004996, AC005164, AC005701, AL021395, AL078639, AC005376, AL022158, AP000349, AL:109759, AF045555, U73645, AL121655, AC002072, Z86090, AL035604, AC007001, AC004061, AP000557, Z98048, AC007444, AC004263, AC004755, AC008122, AC007001, AL023802, Z74617, AC000125, AC007536, AC004650, AC005699, U11309, AC006600, AF129756, AP000517, AP000692, AL031132, AL021154, AC003963, AC006254, AC003688, AF067846, AC007695, AL096774, AC004008, AL049633, AC012380, AL035420, AL023801, AC007535, AC007537, AL022329, AC006322, AL008731, AC005019, AF207550, AL031291, AC004896, AL022337, AC006275, Z98749, AP000350, AF001549, AC004881, Z85986,

HCUBL12	485	739021	1 - 198	15 - 212	AL022323, AB001523, AC005520, AL078581, AC004675, AJ003147, AB023054, AC004186, AC007245, Z83826, U86136, AC003101, AL031447, AL009181, AC005666, AC005345, AL135783, AL049636, Z98051, AF088219, Z93241, AL034419, AC005778, AC005777, AL022578, AC007237, AC005264, AB011147, AL023284, AC009516, AC005280, AC004408, AC004232, AC002117, AL133382, AL049635, Z86061, Z97181, AC005751, AC007387, AL109613, AL031257, AF095725, AC005003, AC004913, Z93783, AC007243, AL035587, AC004797, AL021307, AC004188, AC007327, AC000387, Z99291, AC005157, AC009721, AC006039, AL049780, AC005274, AC007993, Z97352, AL034420, AJ005683, AC005064, AC004081, AL023582, AL117352, Z93020, AC009501, AC005411, AB014086, U78308, D86998, Z69719, AC004467, AC008928, AL049591, AC002464, AC005785, AC004963, AL035410, Z68344, AC006079, AC004973, AC004222, and AL109827.
HCUBL65	486	574201	1 - 297	15 - 311	
HCUBM86	487	577291	1 - 332	15 - 346	AL117328.
HCUBN07	488	953879	1 - 179	15 - 193	AA662395.
HCUBN21	489	577287	1 - 331	15 - 345	
HCUBN38	490	971421	1 - 172	15 - 186	AW089099, and AC004227.
HCUBN66	491	664536	1 - 135	15 - 149	
HCUBO08	492	959928	1 - 305	15 - 319	AC006388.
HCUBP69	493	526757	1 - 133	15 - 147	AL031683.
HCUBP89	494	850016	1 - 347	15 - 361	
HCUBQ76	495	575352	1 - 269	15 - 283	AI061235.
HCUBQ85	496	967074	1 - 327	15 - 341	AW328178, AW328000, AA501777, AA503770, AA749428, AC004854, AC005536, AP000547, and AC004621.
HCUBS58	497	522378	1 - 295	15 - 309	AA342137, F19690, AA069872, T78945, AA347735, R68248, AI453160, AI564294, AA632765, AI471467, AA181917, W01359, AC004983, AC007225, D87675, AC004851, AP000090, AF196969, AC004967, Z98941, AL031003, AF222685, AC005233, AC002126, AC006241, AC007382, AF130248, AC007193, AL035086, U07563, AC004778, AC000070, AL096702, AF075007, AC005529, AL080286, AP000689, AP000688, AC000025, Z83846, AP000354, AB003151, AL109758, AC005695, AL034554, Z97053, L44140, AP001052, AC002477, AC005962, AC004168, AL117337, AL021155, AC005226, AL031681, AL031255, U91321, AL133163, AC004228, and AL035460.
HCUBS72	498	577286	1 - 431	15 - 445	AI355281, AI978712, AA664521, AI076616, F31796, F31799, F37223, AA077302, AW166611, AW131457, AL038936, F31465, AA133650, AI357823, AA448858, AA658846, AW408161, AI926366, AA482896, AL048544, AA133651, AW380074, AL079466, H21449, AI752978, H42075, AA482768, AI139971, C05928, AI860423, AL119295, AT01959, AW167372,

HCUBT02	499	920682	1 - 306	15 - 320	N27353, AA670108, AA338522, AA342901, AA576336, AA736963, AA347109, AA569206, AL037285, AI186233, AA354785, AI783494, AA342256, AP000555, AC015853, AF205588, AC004999, AL034423, AC003075, AC005031, AC005387, AC002036, Z99496, U80017, AC016027, AC016830, AC005920, AF134726, AC008984, AL078581, AC012085, AC005253, AC005519, Z98051, AC005385, AC005828, AC003002, AC006139, AL121652, AL035400, AP000503, AC006544, AC006101, AL121578, AF140764, AC000041, AC004016, AC000025, AL021917, AL035397, AC004686, AB026898, AC006449, Z85986, AP000350, AP000514, AC002316, AL031295, AC006121, AC007533, AC006372, AC004655, AC007387, AL021453, AL109967, AL133304, AC007637, AC006430, AC001066, L81893, AL078472, AC007096, AC006077, Z83826, AC005011, AL049829, AC007151, AP000245, AC016831, AC004254, AC005237, Z99570, AL031662, AC004132, AL035587, AC005488, AC007666, AC007285, AC002037, AC003973, AC007707, AL008730, AC005200, AL022328, AC007050, AL009174, AP000704, AC002059, AC006992, AC007313, AC005081, AC007023, AC000105, I59642, AF106918, AC004779, AC005346, AC004791, AP000255, AL035424, AP000129, AP000207, AP000213, AC004996, AP000135, Z98044, AL009179, AL035684, AP000031, AL121877, AC004019, AC007221, AC005772, AC005057, AC004970, AC006285, AL021579, AL022329, AL023656, AC005839, AC005562, AC004383, AC003665, AC006432, Z93017, Z94161, AC006255, AC007455, AC004595, AL021578, AL133163, AC000353, U52111, AC007688, AC005280, U95742, AL023279, AC005954, AC005520, AC005018, AL031864, AC007216, AC007685, AC007245, K03555, AP000008, AB000882, AL031311, AC002045, AP000962, AC004933, AC009399, and AL008719.
HCUBT94	500	574239	1 - 528	15 - 542	AI189587, AA705559, H47182, H47091, and AF147424.
HCUBV04	501	615547	1 - 372	15 - 386	AW026750, AA579906, and AL035090.
HCUBX57	502	506518	1 - 346	15 - 360	AW084004, AA364082, AA351808, AW089950, AA533660, AC005920, AF196969, AC005031, AC000025, Z83844, AC008101, AF047825, U80017, AC005520, AC004805, AC004851, AC006276, AL022238, AL050140, AC005695, AC005971, AL049869, AC006511, AC005214, Z75891, Z82180, AC005231, AL049780, AB029020, AF196779, AL139054, AC004263, AC005696, AC002319, AC007421, AC004796, AF053356, U95742, AF117829, AC005088, AC002477, AL050350, AC005015, AC005702, Z95114, AL117337, AC005409, AC004084, AC007216, AF001548, AC006443, AC004797, I34294, AL133448, AC004910, AL035461, AL034423, AL121825, AC002350, AL133245, Z94160, AC005519, AP000514, AC002301, AC002316, AC006139, AC005011, AC002430, AC003950, and AC004381.
HCUBZ57	503	529702	1 - 329	15 - 343	
HCUBZ86	504	694720	1 - 247	15 - 261	
HCUBZ88	505	574096	1 - 297	15 - 311	AB41867, and AA608765.
HCUBZ96	506	506585	1 - 293	15 - 307	

HCUCB20	507	574189	1 - 415	15 - 429	AL031295, AC002316, and AC005696.
HCUCC20	508	573901	1 - 347	15 - 361	AA988600, AA515224, AI282479, F13749, AI870444, AA747472, AW167909, AW438643, W21218, AW090629, AI962050, AW023975, AL135643, AA659083, AW419262, AI751162, AW162288, AI917271, AI307201, AI431303, AI688846, AI284640, AI471481, AA657741, AW029038, AI696793, AI345654, F36273, AW166815, AW193265, AA527954, AI350211, AL041854, AI904894, AL138421, AW193432, AI918421, AI653886, AC004821, S77605, AC006312, AL008715, AF165926, AC006960, AC005412, AL008635, AC004491, AC002449, AC009225, AL031670, AC008009, AC004985, AC005874, AF134471, AC004382, AC004675, AF088219, AC004797, AC005220, AL109801, AC003681, AF205588, AC020663, AC006111, AL035587, AC006992, AC007676, AL034376, AC005696, AC005695, AL035086, AF003626, AL022313, AL121655, AP000347, AL035460, AC009248, AC003110, AL035413, Z82097, AL031584, AC004972, U62292, AP000346, U82671, AL096791, AJ251973, AC005034, AC004685, AC007878, AC007292, AC004690, AC005821, Z93930, AC004834, AP000240, AC004263, U52112, AF196971, AC005594, AL022322, AC006543, AC005776, U63721, AC006241, AL136295, Z97054, AC004098, Z82244, AC004991, AC004084, AF190465, AC000353, AC004103, AE000662, AP000553, Z83844, AC004837, Z84477, AC003047, AC007277, AC006101, AC006571, M94081, AL008729, AL033527, AC006544, AF045555, AC002369, AC005255, AC002301, AP000289, AL080276, AL096677, AL021391, AP000501, AC005041, AC005482, AC006552, AP000042, AP000504, AP000110, AC006511, AC007666, AC008984, AF155238, AC005037, Z97056, AR036572, U91328, AC002316, Z94160, AL121603, AL117351, AL079295, AL078471, AC004655, AC005048, AC005632, AC007536, AL049761, Z99570, AL008583, AL022237, AC007731, AF129756, AP000339, AP000518, AC005500, S42659, AC006480, AC007151, Z95113, AC002543, AC002470, AB026899, AP000217, AC006251, AC005702, Z70288, AC005514, AL132987, AC004678, AL022334, U02054, AC005664, AC002289, AC004841, AC005619, AC004126, AC008064, AC007993, AF037338, AC006538, Z97183, Z85986, AL035403, AC002326, AC005553, AL022476, AC005377, AL031587, Z99129, Z82245, AC007387, AC007051, AC007546, AC004500, AL109758, AL031681, AC005071, Z68273, U95742, AC007308, AP000355, Z81370, AC005015, AL009031, AC006547, L78833, AC004859, AL022323, AC007919, AC005003, M87923, AC005094, AL132712, AL031281, AC004883, Z69890, AL096701, AL049830, AC007216, AC003065, AC003007, Z84469, U89337, AC003688, AL034417, AC006057, U73634, AC004933, AL049869, AC004216, AC007055, AL031005, AC000075, AC005033, AL109613, U73168, AC005330, AL009181, AP000269, S70707, Z84466, AC002365, AL031735, AC004000, AC004760, AC004447, AP000500, AL020997, AL109963, AC006276, AC006064, AL034384, AL049540, and AF134726.
HCUCC78	509	577129	1 - 291	15 - 305	AL022318.
HCUCC96	510	796530	1 - 229	15 - 243	AW005018.

HCUCD26	511	574098	1 - 226	15 - 240	AB020868.
HCUCD82	512	780047	1 - 329	15 - 343	R22017, AC004787, and AF165926.
HCUCG21	513	671210	1 - 463	15 - 477	
HCUCI43	514	715488	1 - 203	15 - 217	D60319, D60589, D60408, D61144, D60853, AF119569, AF091501, and AF087651.
HCUCJ90	515	967501	1 - 65	15 - 79	AC007032.
HCUCT08	516	959910	1 - 531	15 - 545	
HCUCT48	517	720905	1 - 245	15 - 259	
HCUCV13	518	574121	1 - 310	15 - 324	
HCUCV20	519	694398	1 - 250	15 - 264	
HCUDA38	520	862089	1 - 344	15 - 358	
HCUDB13	521	578712	1 - 323	15 - 337	AA936845, N73060, N73203, R14903, AA988600, AA595504, M78131, AA774006, W68328, H15294, AI049504, AA364863, AW131417, AA077619, AA477517, H53101, AA665304, AA457230, N57709, AL037006, R38509, H58786, AI791561, AA173334, AA525407, H10454, R48980, AA636102, AI479068, AA225548, AA321595, N22153, AW192518, R82835, AW073498, H09639, AI929410, AI753672, AW019964, AI750950, AA693806, AA629412, AA479337, AI273675, AA296958, C14599, AI268564, AA706094, AA831801, C14880, AI138918, AA741020, AI367222, AA832016, AI371804, AI860535, AW276933, H63220, AW103407, R83708, AC009399, AP000128, AP000206, AP000245, AC005529, AL008715, AL034420, AC000025, AC005527, AC009247, AC004531, AC002407, AP000688, AC011331, AC002990, AC004466, AL008718, AC005231, AC004540, AL031803, AC002381, AC006077, AC005351, AC005901, AC005822, Y11107, AC000086, AL133275, AC004910, AC006042, AC007919, AC006417, AF006487, AC004383, Z99716, AF111168, AL035587, AC005972, AL031577, AC006275, AC002301, AC002351, Z97054, AC007055, AC007537, AC002120, AC005291, AL031428, AF027974, AC000353, AL034419, Z95331, U72845, AC004955, AL031255, AC005088, AC004587, AC002563, AL133448, Z85986, AC005209, AL109963, AC007263, AC005480, AC007540, AP000116, AC005231, AC006388, AC000066, AC004000, AC005049, AC004851, AL035415, AC002073, AF134726, AC009509, AC005585, AL021154, AL118516, AC007227, AC007201, AC005071, AL096775, AC005740, AC005921, AP000555, AC004983, AL121915, AL049766, AC004139, AL049830, AC007226, AC004908, Z98752, AC007536, AC007559, AC004036, AC005037, AC005578, AF092925, AC006059, AC005486, Z98941, AC007028, AJ010770, AC006365, AL078581, AC008249, AC007214, AC002072, Z82178, AC005796, AL109952, AL009181, AC005971, AC010168, AL033527, AC004054, AL049699, AD000812, U91324, AP000252, AL024498, AC003962, AF141308, AC006449, AL034418, AC008044, AL021578, AC005722, Z84474, AC005521, AC005479, AL033524, U91318, AL031685, AC004694, AC007899, AC004125, AC005399, AL121825, Z74739, AC006344, AC005005, AL035422, AL133249, AL023581, AC006071, AC004019, AC005821, AC000026, AC006538, AL050318, AC006365, AC004817, U95740, AP000212, AP000134, AL109984,

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HCUDC45	522	576566	1 - 379	15 - 393	AC007324, AC008079, AC008101, and AC016830.
HCUDC79	523	576577	1 - 154	15 - 168	—
HCUDD19	524	959706	1 - 1796	15 - 1810	AI184562, AW248599, AW051528, AA447350, AI740715, AW316672, AW316654, AI952004, AA977191, AW363318, AA703205, AA149973, AA135413, AI799559, AA459866, AI023370, AW264927, AW264916, N93625, AW297503, AI192819, W68805, AA402761, N53321, AI207204, AI809102, AA804623, AW057780, W68607, H80704, AA398493, H80394, H14357, AI581914, H51962, AI873736, AA300679, AI689515, T33180, H80494, AA555067, AA764994, H68164, H68165, AI807729, AI693622, AI273514, AI932996, H80705, N48174, R92093, AI342079, AA903178, AL037469, D61862, H81412, AA460510, W25416, R92092, T24613, AA280237, AI493508, N74148, AA281536, AI525850, C20784, AW438613, AA923003, AI094325, and AB002330.
HCUDD43	525	850103	1 - 263	15 - 277	AI349874, T39598, AA581903, AA630352, AI890928, AW023511, AI890570, AI859251, AA484148, AA702023, AA309460, AI334435, AW074398, AI561335, AI110770, AA226364, AW193546, AA342901, AL120502, AI266576, AI536555, AA715270, AI679706, AI612152, AI679132, AI287651, AL079683, AI446464, T63104, AI252114, AA177061, AW270270, AI792903, AA916039, AW162489, AI734002, AI358343, AI148277, AI279165, AW074207, AW338086, AI061227, AA523688, AL120687, AA587256, H60143, AI064864, AI252085, AA451612, AL138265, AW303876, AA348311, N66776, W47480, N64437, R44592, AI792864, AI733957, AL119984, AI053672, AI471481, AA744110, AA441788, AI334443, AL040130, AA594215, AA553465, AA491814, AA481363, AA652057, AA481375, AA649642, AI742771, AA386111, AI246796, AI674873, AI287451, AI274431, AA501722, AI610159, AL048925, AW341892, F19156, F36273, AI830390, AL041382, AI284640, AA483034, AI613261, AA125788, AW327360, AL040547, AI493634, AW172727, AW265009, AL137954, AA515938, AA578141, F03097, H92005, W45336, F35113, AI110760, AL119691, AA559290, AL049831, AL049697, AB020871, AP000193, AL109981, AL023281, AC005565, AP000117, AC004983, AC004021, AC006126, AL031293, AC005274, AL023575, AC004019, AP000049, AC004475, AC005089, AP000311, AC004067, AC007065, AL080243, AC005158, AC005837, Z83826, AC007666, AL096701, AC005412, AL096829, AC006277, AC005086, AB020870, AC002564, AB020859, AC004941, AC004616, AL049869, AL049757, AC002287, AC005483, AP000334, AC002522, AC000095, AP000173, AC002429, Z81369, AC000052, AL031430, AC005104, AL035684, AC005184, AF072711, AL079295, L14752, AF111169, AP000023, Z98885, AC005037, AL035249, Z68871, AL078472, AP000018, AP000160, AC004924, AC005159, AC009227, AC006482, AC005231, AC004813, AF047825, AL023807, AC006387, AC007934, AC005793,

					Accession Numbers
	526	734883	1 - 373	15 - 387	AL049795, AC006137, AL021707, AL031983, M86181, AC007312, AL022722, AL121603, AL096768, U95743, AC002472, AC004987, AC000021, AC002428, AC006079, AC004050, AC004241, AL049575, AL021154, AL031255, X06123, AL022238, AC006556, AC006273, AC007565, AF020503, AP000555, AC004559, AC005899, AC003003, AJ239321, AC006205, AC005324, AP000967, M26434, AL136504, AF164343, AC005330, AC004534, AL079340, AC002519, AL021918, AC004817, AC004447, AL031296, AC007242, AL031256, AL049830, U89335, AP000692, AL031769, AC005256, AC004755, AL031224, AC002485, AC006023, AC006317, AC002368, AC005924, AC004851, AC007707, AC007463, AL031686, AL050318, AP000043, AF109907, AL133396, AC004232, AC002301, AJ003147, AP000961, AC006071, AC005512, AL136018, AP000338, Z94721, AC006315, AC005913, AC002492, AC003080, AC007676, AC004383, AP000047, Z82201, AC004695, AC005822, AF111168, AF165175, AL034420, AL110502, U66061, AL031662, AC004776, AC007564, AP000216, AP000352, AB002059, AL035420, AC002470, AC000003, AC005666, AC007664, AC007214, Z82216, AL035073, X61109, AC005821, AL022328, AC005919, AC008179, AC004763, AC007537, AC004893, AC005838, Z93024, AC007076, U95742, AC007216, AL034554, U78104, Z77249, AF088219, AC008984, AL008708, AC007161, AL023755, AL121767, AC002070, AC005503, AC004650, AC000372, AC005694, AP000065, AP000115, AC006070, U58047, AC005994, AC004933, L24094, AL132641, AC018633, and AL022163.
HCUDD57					
HCUDE23	527	953868	1 - 356	15 - 370	R91783, AW449624, AI792255, AA632429, AA632442, and AA573692.
					R62551, and AI174377.
HCUDE38	528	850076	1 - 324	15 - 338	AA551398, AI690497, AL031577, AC005971, AF109907, AC007546, AC006077, AC007773, AL031666, AL049843, AP000208, AP000130, U91321, AF196779, AC002300, AC007880, and AL034417.
HCUDE47	529	861150	1 - 789	15 - 803	AW139719, AI911432, AI288208, H39195, R42796, AI093947, H40911, H23589, H46892, R42704, H40952, H46310, H52787, H52820, H41504, AW075323, and AW071240.
HCUDF26	530	676949	1 - 436	15 - 450	
HCUDF33	531	577224	1 - 295	15 - 309	R02571, AI032037, AA679303, AA642557, AA345400, AA551532, N53352, N58999, AA985662, F18098, AA007330, AA767276, AA703457, AL046094, N64205, AI479093, AL009174, AC006238, AC004662, AC006530, AC004491, AC005781, AC005740, AL049780, AC006597, AL049911, AC005856, AL109628, Y14768, AC004408, AP000505, AL030996, AC004003, AC005874, AF134471, AC002351, AC002375, AC004933, AF117829, AC004648, AL135959, AC000105, AL078611, AC005102, AC004232, AF129756, AL117344, AL031577, AC002302, AF001549, AC002301, Z99774, AL031733, Z15025, Z98036, AC005105, AL049759, AC006961, AC005899, AC005663, AC004821, U91322, Z79997, AP000338, AC004125, AP000216, AJ003147, AC003103, AC004000, AL008718, AC005500, AC007225, AC002314, Z97200, AF126403, AC008372, AC004990, AL078460, AL109758, AL035088, AC007276, AL022330, AC002378, AC007227, and AL035089.

HCUDF90	532	958449	1 - 459	15 - 473	
					AA747777, H71827, AA378822, AA378821, AA573020, AA810269, AA503154, AA451612, AA095511, AA837058, AA644538, AA533725, AA985455, H81785, T29180, T52733, AA593247, F00290, T53607, F31204, AA493708, R31948, T69435, AA176717, N22424, AA861959, AA804962, AA112778, AA780797, AW050498, AI446464, AA564264, AW406755, AA148489, AI365988, AA192695, AI954260, AI358229, AA535661, AA143516, AA598494, AA578349, AA357937, AW088984, AW339687, AA503473, AA908349, AI635272, AA401022, T51102, AI499938, T72601, AI305766, AI920877, AI624698, AA059154, AL133723, AI278997, AI744188, T55213, AA640034, F37286, AA657918, AI827234, AA494163, AA365694, AA805230, AA218645, AA911519, AA169194, H12334, R77608, AA669840, AA371533, C19058, W38648, T06647, R81240, R64515, AA515128, AI064864, AW338086, H71429, R45369, AA098922, H53522, AA533450, F34795, AA121333, AA364429, AA176114, N54934, AC004605, AC004964, AC012599, AC003684, AC005696, AC007845, AC016025, AC005069, AF117829, AC005736, AB003151, AP000688, AC006277, AL078477, AP000689, AC004858, AF109907, AF069291, AR000118, AJ229042, AC016027, AC007751, AC016830, AC020663, AL031577, AL135744, AJ239322, Z86061, AC016026, AC004854, U96629, AC004675, AP000556, AP000557, AP000552, AJ246003, AL031668, AF038458, AL133245, AC005740, AC006374, AL009174, AF131217, AF001549, AF088219, AC004216, AC005839, AL008582, AL023575, AL121658, AC002349, AL031905, AL132718, AF010317, AP000114, AP000046, AC005409, AC004019, AP000473, AF124523, Z68322, U95743, AL022726, AL121603, AC005031, U95742, AC018633, AC002133, AL020997, AC008372, AC005730, AC004765, AL035587, AJ238481, AC007510, AC005412, AB020858, AC005191, AC005775, AC007324, AC006597, X69953, AC006001, AB023049, AC005373, AL117330, U80017, AC005399, AC004596, AC006251, AL034420, AP000432, AC007773, AL022394, AC006273, AC005242, AC003030, AP000356, AC005666, AC002316, U82696, AC000353, AC006958, AF165176, AF064863, AL034379, AC006130, AP000705, AC000379, AL023879, AC000052, AC001164, AC006285, U91326, AC005772, AC004184, AC006525, AB020867, AF064861, D15054, AC007050, AC005728, AC005280, AF139813, U73634, AC006465, AC006312, AL022323, AC004139, AL035089, AC004770, AC004186, AL109799, AC004228, AC002070, AC002312, AC007314, AL031770, AC003681, AC004859, AC002051, AC002310, AL080243, AL031283, AC004894, AC005231, AC007666, AL031255, AJ011930, AL022320, AC007686, AC008018, AR036572, U91328, AL031281, D14034, AC005837, AC008033, AC006948, AL021808, AC002544, AL049760, AL032821, Z84466, AC005841, AL109654, AL049776, AL049832, AL133448, AC005067, U07562, AC006208, AC009516, U63312, AL049776, AC005379, AF002993, D87675, U47924, Z83840, Z98950, AP000502, AC005379, AC002369, AC004531, AC007099, Z83820, AL031670, AC004975, AC006121, Z84477, AC002369, AC004531, AC005082, AC005261, AL022328, AL035460, Z83844, AC004470, AC005082, AC005261, AC004671, Z85986, AC005913, AC007227, AL033527, AL078603, AC005906, AC002066, AL035906, AP000352, AC003682,

HCUDH64	533	717894	1 - 392	15 - 406	AC005104, AF035397, AL049696, AC004878, AC005157, AP000460, AC006449, AC005529, AC004386, AL021937, AC005901, AC006042, AL096712, AF003627, AB023054, and AL035458.
HCUDH84	534	713524	1 - 367	15 - 381	AB022698, AJ007628, and AB022699.
HCUDJ91	535	861025	1 - 303	15 - 317	
HCUDL94	536	915821	1 - 353	15 - 367	AI623889, AI934811, AJ934751, AA687180, and AF053356.
HCUDM23	537	462283	1 - 376	15 - 390	AI003172, W60516, AI051551, AA557325, AA299087, AI149915, T79003, AL041368, AI857261, AA365347, H51054, AA313078, AI499094, AA350859, H64560, AI205126, AA443390, AW276827, AW088616, AI879000, AI350211, AI032878, AW069807, AI719080, AL041412, AA364567, AI469878, AA327572, AW265214, AW193432, AA329192, AA551509, AA381666, AI653515, AI915075, AW277102, AI679639, AI341664, AI193007, AL046696, AI061334, AI204076, AW339568, AI471481, AI359285, AW078495, W04302, AI653434, AL046409, AA365587, AI289067, AA584749, AA340960, AA580662, AW303876, W25284, AI305766, AI686431, AI124660, AI761471, AI421213, AW023672, AI762575, AI678392, R23777, AI914706, H13868, AA847216, AI719644, AA377730, AW074398, AI284640, AI538399, AW193265, AA659083, F31204, AA344959, AA229785, AW264973, AI110770, AI610159, AA593060, AI282907, AA641989, AA507990, AW057699, AI536625, AI284467, AI688846, F28576, AI806850, AA973575, AI569086, AA515128, AI634384, AA071182, AI038279, AW337985, AW419262, AI815000, AI079910, AA679810, F36273, AW261871, AI889781, AI431303, AW130799, AI653886, AI445436, AI890052, AA457639, AI742771, AI814735, AI963786, AI613280, AI963720, AL079645, AI474713, AW338869, AI923140, AI133235, AL138421, AL042856, T10218, AI547286, W28786, AF150222, H64777, T34066, AL047643, AA460367, AW157326, AA128576, AA515435, AA339432, AA359958, AI049634, AW175641, F19258, AI124779, T80500, AA579140, AC004495, AC007151, AL109799, AC004041, AL008634, AC005225, AC006396, AL031770, AC005701, AC005589, AL078580, AL080278, AC004655, AC000075, AC005164, AC005664, AC000097, AC006547, Z94721, Z94056, AP000459, AC008080, AL132642, AC007252, AL078584, AC005193, AC007536, AC006559, AC004100, AC004861, AC007252, AL078584, AC005193, AC007536, AC004985, AC006559, AL050305, AL050097, AL022327, AL035252, AC007501, AJ003147, AC006143, AC002364, L81648, AC004220, AL031012, AP001038, AL021937, L13713, AF015171, AL049565, AL049871, AC005881, L13714, U85195, AC004900, AL049589, AL137191, AC005486, AC007032, AC006323, L76568, U34879, Z93023, AC004875, AC004953, AC006050, AC007263, AE000658, U63312, AC005217, AC004097, Z93241, AL033521, AL034350, AL035461, AC007040, Z82900, AP000468, AL109802, AJ011932, AC013248, AC004756, AL096774, AC002538, AL034373, AL078615, Z82210, AC005375, AC007159, AC006556, AP000556, AC007312, AP000552, Z65382, AP001170, AF038667, AC000381, AF003627, AC005876,

HCUDM66	538	506522	1 - 367	15 - 381	AC003964, Z83827, AL034548, AL031680, AC009223, AL132992, AB017652, Z97053, AL033392, Z69666, Z84479, AC005781, AC004645, AL109801, AC003002, AC007038, Z98744, AC005911, AL031390, Z81369, AP000477, AL035400, AL079295, AC020663, AC007551, AL133371, AC007656, AC006111, AC005390, AF095901, AC005923, AC004946, AC005002, AL031295, AF064865, AC005046, AC004222, U52111, AC006953, AL133353, AC006125, AC004789, AL080242, AF045555, AC005057, AC002119, AC005064, AL031848, AL132708, AC009247, AL021918, AL021368, AL109758, AC004010, AC004859, L13709, L13706, L13707, Z99495, AC007917, U18391, U57009, AF140763, Z98883, AC002306, AC004755, AC004403, AC000127, AC005355, AL034418, AF038458, AC000066, AB020859, AC005231, AC006409, AL031657, AC004990, AC005150, AC007011, AJ010770, AC005274, Z77894, AC000025, AC006006, AC005552, U67230, AC006124, AL096761, AL023799, AB020871, AL022143, AP000855, AC005243, Z98304, AC003037, AC005527, AF042090, Z97054, AC002055, AC004967, AB029343, AB023059, AC004195, AC004076, AL031223, L47234, Z84718, AC005210, AF091512, AL078462, AJ239318, AC004745, AP000509, AL096862, AC006539, AL031666, AC007030, AP000351, AL009181, AC006374, AL121825, AL049709, AC004027, AL035653, AC002980, AC004051, AL009181, AC006374, AL121825, AC005822, AC005245, AF196779, AL121823, AF165124, AL031054, AC007364, Z95114, AL080239, and AC005084.
HCUDN09	539	850101	1 - 456	15 - 470	AI090115, AI168683, H99504, AI147670, AA232645, N73285, AA374707, AA380875, AW139567, AA886361, AI735132, and AI679526.
HCUDN14	540	862119	1 - 400	15 - 414	AL021368.
HCUDP19	541	578721	1 - 345	15 - 359	AC005755, AC005372, AL049780, and AC005081.
HCUDP23	542	783051	1 - 444	15 - 458	AA278441, AI263438, AI870837, AI886871, AW450567, M78087, AA887815, AI700532, W94450, R96854, and R98160.
HCUDP27	543	725155	1 - 427	15 - 441	AI538514.
HCUDP82	544	578720	1 - 337	15 - 351	AI970020.
HCUDQ61	545	839959	1 - 318	15 - 332	U77321, U90095, AC002403, and AJ006345.
HCUDS61	546	578705	1 - 390	15 - 404	AW057640, AA410949, and AJ394291.
HCUDT62	547	747131	1 - 320	15 - 334	
HCUDT65	548	915742	1 - 1845	15 - 1859	AF039235, AI669256, AW245958, AI763048, AW245514, AW237088, AI093187, AI571378, AW296090, AI354976, AI680102, AW119180, AI140327, AA934553, AI201269, AA559846, AI991982, AA625161, AI203368, AA040597, AW268813, AW152391, AI243335, AI185996, AA315994, D80898, AI887841, AI902903, AA497000, AI312767, AA373939, AA358918, AA634307, U25751, AI916936, AI700879, AA918570, AA362530, AI671153, AI927665, AI738973, AW087508, AI824923, AI810550, AA359868, AW196382, AI867799, AA738423, D80899, AA954586, C01220, AA489585, F31194, AA361102, AI698559, D20015, W81431, AA928147, AI432152, T27188, AA040679, T19862, and T27189.

HCUDW37	549	859268	1 - 895	15 - 909	
HCUDW74	550	576240	1 - 246	15 - 260	Z84480, and AC005011.
HCUDX05	551	951165	1 - 37	15 - 51	
HCUDX14	552	571370	1 - 307	15 - 321	AC002477.
HCUDZ25	553	678365	1 - 295	15 - 309	
HCUEA58	554	579029	1 - 303	15 - 317	AL031729.
HCUEA63	555	745183	1 - 354	15 - 368	AI826761, AI355007, AI085719, AW338042, AI149478, AA650365, AI733856, AI742168, AA455483, AA297666, AA226153, AA481887, AI310343, AA410788, AL135108, AI216151, AW316969, AA744018, AI061313, AW156980, AW270771, AI829331, AL045077, AA555229, AA651632, AI053978, AL037910, AI620415, AA679625, AA228778, AA021429, AA737309, AA503468, AI244127, AC003037, AL049776, AC005399, AL022316, AC007388, AC005015, AC005529, AC005274, AC004067, AC004967, AL132777, U63721, L78833, AC007308, AL050318, AL021154, AL022323, Z82206, AL031767, AL031589, AC005280, AP000210, AP000132, AC005231, AC006312, AC016027, AC016830, Z93017, AC005081, AL049869, AF111168, AC000159, AC005409, AC005913, AC007011, AC004755, AC004156, AC002310, AC005291, U62292, AL109628, AC008498, AL035417, AF196779, AC005340, AC009247, AL021808, AC005953, AC005043, AP000557, AC003043, AL133448, AL049692, AC003101, AD001502, AC004491, AL022318, AC005074, AL049539, AL096703, AC005971, Z98742, AP000098, AC006211, Z97056, AL021707, AC002302, AC007227, AC003007, AC005519, AC005722, AP000114, AC005821, AC004686, AC020663, AL117352, AP000502, AL109952, AC005800, AC004890, AC005881, AC007536, AC005632, AC005209, AL078477, Z93244, AL020995, U91323, AC005330, AL035420, AC003665, AC004000, U91326, AC004983, AC005412, AC004383, AC002544, AC005940, AL022476, AF134726, AC002375, AC009509, AL121652, AL096791, AL031846, AL035400, AP000556, AC004876, AC009516, AC005200, U52112, AP000514, AL049843, AL035587, AL121748, AC010170, AC004805, Z99128, AC004738, Z84469, AP000356, AC002316, AC009044, AC006023, AC007637, AC004526, AC007371, AC005943, Z83840, AF001549, Z85987, AC005921, AC004910, AC005484, Z85986, AC007999, AL008719, AP000553, AC006077, Z95152, AC004832, AC003663, AC002470, AC005089, AC002404, AC006121, AC007114, AC005261, AC004913, AC007664, AC005158, AL035422, AC002425, Z93023, AC004841, AL031657, AP000510, Z83844, AL034548, AF124523, AL133245, AL022165, AL049830, AC010205, AC000029, AC006509, AC002045, AL035419, AL031774, AC004785, AC002996, U52111, AC005740, AC009288, AC008018, AL049832, AL031295, AC004638, AL133163, AC005962, AC006449, Z84480, AC002070, AC004084, AC005069, AC004874, AC004771, U85195, U78027, AL096755, AL049829, AC005837, AC005300, Z99716, AC005520, AL133246, AC005049, AL020993, Z82244, AC006581, AL133244, AE000658, Z83820, AC004815, AC004099, AL109984, AC002550, AC006511, AC006271, AC003982, Z97876, AC005523, AC004583, AC006265, AC005088,

HCUEA72	556	713040	1 - 311	15 - 325	AC004896, AC005220, AC006960, AP000248, Z84466, AC004895, AC000353, AC005544, and AL031291.
					AW084919, H67179, T58440, AI708182, AI141130, AA586433, H52397, AI865087, R56848, AI566425, AW270183, AA721523, AA721530, AI962094, H61871, AA610433, AA292003, T89901, AA746911, AA374797, AW419389, H61942, AI697242, AW407340, W02189, AA069631, AA568314, AA809635, AA224917, AI697239, R69937, AI266359, AI749335, H71678, AI066711, AA666046, AI686470, H73306, T97896, H07953, AI583468, AI538214, AA071151, AL079666, AI697235, AA214042, AW074613, AA084076, AA468486, N70449, H13612, H01327, AA329565, AA032001, AA715955, AA525253, AA706495, T55992, AA601216, AA054085, AW152178, T81513, AL133749, H81267, AI858889, AI251576, W37651, AA747234, AA572784, AA513884, AI306232, AI583466, N52410, AA613754, AA249239, AC004859, AC005335, AC005332, AL096701, AL022069, AC006064, AL096773, AC004686, AC005291, AF001550, AC005005, AL121603, AC007773, AC004999, AC007637, AL109758, AC002544, AL021391, AC016027, AL133500, AC016830, AC006241, AC005102, AL031284, AC000052, AC005971, AC004216, AL049709, AC004000, AC005747, AC005375, AC008372, AC002477, AB023048, AC003664, AC004448, AL117338, U91323, AL020997, AL133163, L78810, AC008012, AC006130, Z86090, AC005280, AL035398, AL049653, AF196969, AC004253, AC005736, AC005919, AF019413, AL024508, AC006441, AL008720, AC002059, AC009399, AL023807, Z84487, AC005015, AF111168, AC006509, AC006121, Z95152, AC004801, AC004134, AL034420, Z83843, AC009247, AC001228, AL049775, AF190465, AC004832, AC007298, AF001548, AC004810, AC002312, AC007325, AC004791, AC004106, AL035683, AL021707, AL031683, AC004672, M63796, AC002476, AC004938, AC007312, AL050307, AL031659, AL022238, AL050341, AJ238093, AL022322, AP000511, AF196972, AC005057, AC009464, AF217403, AC003687, AC000394, AL031657, AC004812, AP000032, AC006023, AC004019, AC005808, AL049636, AC002351, U07563, AL008707, AL079304, AC005288, AL031311, AL121658, AL031005, AL034429, AC003108, AP000089, AP000142, AL022316, AC007364, AC006539, AC004887, Z83826, AC002094, AC005049, AC006360, AL035400, AC002126, AC004526, AC004033, AL049766, AC005037, AC006362, AC004491, AD001527, Z99128, D87675, Z98304, AC006285, AC002996, Z84469, AF048729, AC003101, AL109627, AL049911, AL008719, AC006947, AC007308, Z93244, AC003025, AC006455, AC000134, AC004878, U62317, AC005180, AC004985, AF001549, AC006552, Z83844, AC006480, AF111169, AC008273, AF207550, Z83856, AL050318, AC007263, AC006312, AL079342, AP000961, AC000120, AC005800, AC005089, AC007878, AC005229, AC004996, AC004223, AC003663, AC007201, AC006344, AL031228, AL133245, AF139813, AF205588, AC004821, Z97053, AC002470, AF047825, AC004655, U91326, U80460, AC005520, Z98752, AF111170, AC003982, AF030453, AC004510, Z96258, AC004222, AC005839, AP000502, AC005632, AF196779, AC003690, AC004386, AP000104, U95090, AC002306, AL096767,

Clone					Accession Numbers
HCUEB62	557	579058	1 - 364	15 - 378	AC006530, AL031774, D63507, AC004131, AC002302, AC007056, AF108083, AC004962, AF086394, AL031230, AL117337, AC005670, AL035413, AL031447, AF024533, AC002044, AC007566, AJ246003, Z84480, AC007934, AC006026, AC006071, AL031427, AC002565, AC009248, AL109657, AL121653, AL023575, AC005399, and AC003103.
HCUEC06	558	935769	1 - 94	15 - 108	
HCUEC78	559	850066	1 - 319	15 - 333	H81012, H86221, AA018923, R64467, M87891, U14684, AL034429, AC004938, AC007376, AC004188, AC006480, U14701, AL022316, AC002477, AC005527, AC002416, Y14768, AC005620, AC005197, AC005907, AC000052, AL020993, AC002375, AC007055, AC006538, AP000505, AP000516, AC007707, U91629, AC004797, AC006263, AC005488, AC005914, Z82201, AC005529, AC005911, AC005410, AC035587, AC005632, AP000512, AC005746, AC002310, Z74739, AC006511, AL023803, AC005667, AF001975, AC005753, AC004678, AL022237, AC002303, AL034420, AL021578, AL133448, AP001065, AL031311, AF053356, AC003043, AP000065, AC005971, AP000354, AF045555, AC004859, AC002551, AL118497, AC005003, AF134726, AC000405, AF165926, AL035086, AC005841, AL133163, AL050321, AL035405, U12387, AC007686, AC008015, AC005722, Z95114, AB014087, AL049766, AL020997, AL031447, AF001549, AL096677, AC006211, AC005777, AC005288, AL050308, AP000555, AC005409, AC005088, AC002104, AC004686, AC000025, Z98941, AC003663, AC004671, AL121603, AF111169, M87898, AC004686, AC005037, Z98941, AC003663, AC004671, AP000503, AC004659, AC002492, AC004190, AC005037, AF037338, AL031662, AC005619, Z81365, AL022326, L78833, AC006064, AC005954, Z97876, AC006130, and AC005486.
HCUED04	560	615410	1 - 324	15 - 338	Z94044, AC005480, AC006388, and AL022316.
HCUED66	561	576573	1 - 449	15 - 463	
HCUEE04	562	653118	1 - 290	15 - 304	AA305339, AL121572, and AL022341.
HCUEE29	563	578709	1 - 240	15 - 254	AW297855, AA932284, AI911033, AI540093, AW105017, AA829228, AA814442, and AA768919.
HCUEE41	564	578715	1 - 235	15 - 249	
HCUEE63	565	745184	1 - 100	15 - 114	AP000096, and AP000240.
HCUEE66	566	578702	1 - 207	15 - 221	F37223, AW419118, F31799, AI446638, F23274, H64560, AI791610, AI867044, AW023672, AA381762, AA299115, AA548087, AI223616, AI287485, AW078552, AI053465, AI918421, AA399158, C06471, AI679713, H04867, AW130254, AA086236, AA469451, AW341903, AI439269, AI151261, N25303, AW129694, AI635274, AI679139, AI338426, AW302013, AI240891, AW152111, AI285696, M77950, AA913549, AW057776, AL044858, AA584489, AL138421, AI565873, R94974, AA609841, T47280, N58729, AA229444, AL039187, AA913114, AA302732, AI939465, AA527606, AA527716, AW130535, N20066, AW085801, AI110683,

AA230143, AI469968, AW273469, AI753365, AA573540, N35896, AI888752, AI821044,
AW192199, H47540, AI732239, AI267356, AI075744, AA757743, AA629702, AI536625,
AA329321, H08791, AI821467, AI754023, W90237, R94721, AI124660, AI370270, H71349,
AA528390, AA347835, AW085991, H86579, AI932884, AI207584, AA721577, AI570261,
AA947837, AA018923, AA012829, AW368401, AA323085, R71981, AA720664, AW131213,
AI811460, AA384039, AI539776, AA078483, AI267450, AI201668, AI929796, H96823,
AW175641, AW192518, AC004935, AL096775, AC006571, AL022330, U80017, AL117694,
U78308, AC004032, Z99128, AC000070, AP000080, AF049895, AL096774, AC005740,
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AC002451, AC007842, AF070717, AL009173, AC020663, AC002350, U76377, AL033539,
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AF003627, AP000143, AF129756, Z83844, AC002525, AC005994, AC005304, AC005914,
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AC005520, AC004230, Z68756, AL021808, AC006515, AL021368, AL031584, AC007207,
AL117256, AC007666, AC004838, AC007845, AL021395, AC007308, AC000072, AL031729,
AC002470, AP000966, AF079797, AC005328, AC005909, Z83851, AC008062, Y11873,
AL109628, AC003688, AC005031, AB017652, Z93783, L77569, AC008273, AC007878, and

HCUEE83	567	578703	1 - 406	15 - 420	AC006948.
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HCUEF90	568	1 - 199	15 - 213	AL133485, AL022318, AF024533, AL049776, AC005037, AC002312, AC005924, AC007298, AC005288, AC004234, and Z93241.
HCUEG58	569	1 - 113	15 - 127	AC005913.
HCUEG90	570	1 - 141	15 - 155	AF024533, AF030453, and AC005088.
HCUEJ55	571	1 - 110	15 - 124	
HCUEJ69	572	1 - 526	15 - 540	
HCUEK37	573	1 - 331	15 - 345	AA782338.
HCUEL28	574	1 - 289	15 - 303	AI097211, AI446336, R92902, AI539685, AA775205, AI438967, AC007021, AC007564, U95739, AL049576, AC006077, AC006312, Z85987, AC005821, AC003663, AC006323, U95743, AC003026, AC011331, AF001549, AF029308, AC003037, AL136453, AC006965, AC005011, AC005764, AL023807, AL096774, AC005740, and AC005886.
HCUEL91	575	1 - 119	15 - 133	
HCUEM23	576	1 - 373	15 - 387	AC006531.
HCUEM35	577	1 - 307	15 - 321	
HCUEM62	578	1 - 248	15 - 262	
HCUEN34	579	1 - 333	15 - 347	
HCUEN58	580	1 - 453	15 - 467	
HCUEO17	581	1 - 252	15 - 266	
HCUEO30	582	1 - 274	15 - 288	AL039309, AA985145, AA558404, N52501, AI884861, AA657910, T55707, AA904211, H48017, AI431513, AI049504, AW341882, AA486819, H86579, AA774006, AA662431, AI800343, AA584756, T02817, H47295, AW089016, AA527109, AA502813, AA018923, AA012829, AI583291, AI816136, AW081503, AI471455, AW407388, AA053463, AW117723, AI826857, AW392414, AI251576, AI687343, AI306232, AW274191, W63553, AI583466, AI201668, T59930, R48980, AI306717, AI811647, AA429481, N22395, AA368329, AA599749, AA577855, AI031759, AA827383, T74524, AA214109, AA768179, AI628859, AW019964, AA434078, W92433, AI801824, AA339789, H86133, AA347867, AW301855, AA767257, AA548692, AW148886, AI697383, AI065031, AW029626, AI888050, AW117704, AI417586, AI300818, AL041924, AI310992, AA745628, AI267356, AA278496, AA287502, AI267459, AI369925, AA535756, AI434365, AA573000, AA374797, R02063, AW009653, AI831172, AA993165, N59744, H53284, AI279417, H73306, AI002863, AI869797, H54252, AL041352, AI049680, AA302978, H47296, AA916794, R84528, AA947265, AA078509, AW190277, AA486820, AI340151, AA364073, AA374525, R39627, AI872461, AA230146, AA773171, AW162303, AW084173, AA878407, AI459866, AW162047, AA295899, AI277318, AI860535, AW161786, AW117915, T51436, AI873627, AC002128, AC006356, AC004685, AL050338, AC004554, AC005518, AC006512, AC006023, AC008101, AC008079, AC007567, AC005722, AL031985.

HCUEO31	583	576551	1 - 229	15 - 243	AL022329, AF111168, L48038, AC005516, U94776, Z83822, Z82190, AC000134, AL078621, AC005214, AP000566, AL031284, AC002301, AL031657, AC006026, AL078593, AC003695, AC002091, AC005906, L78833, AL049829, AC005747, AL023799, AL121754, Z82215, AC007435, AC007676, AC003692, AC006044, AC004878, AF196970, AL034420, AL022326, AC004033, AL020995, AB011399, AP000355, AC007386, AC007731, AC005500, AL022476, AL133500, AB016897, AL121923, AC006344, AF024534, AF024533, AL109827, AL050321, AC005086, AC007225, AC005355, AC005049, AC004156, AC002070, AL109956, AL008718, AC018633, AL050348, AP000557, AL031255, AC000026, AC002563, AC004134, AC006958, AL022336, AF053356, AP000556, AP000359, AC005740, AC005585, AB023048, AL031728, AC002059, AL050318, AL022577, AL117351, AC004139, AC005005, AF068862, AC004031, AF190641, AP000091, AF107257, AP000236, AL096818, AP000690, AL021878, AP000689, AC007279, AC007444, AC004612, AC002504, AL096818, AC004381, Z84466, U92032, AP000558, AC004034, AC007227, AC005874, AF134471, AC007934, AC008080, Z85996, AL049869, AC006312, AC004099, AC004234, AL031295, AC031295, AC005192, AB018295, AL021707, AC007551, Z96074, AL022721, AC004217, AL109847, AC005192, AB018295, AL021707, AC007551, Z96074, AL022721, AL121603, AC007878, Z98941, Z97333, Z97334, U62292, AD000812, Z49235, D86995, AC007792, AC002126, AL035659, AC005231, AC007324, Z93020, AL049759, Z83838, AC002351, AP000555, AC016027, AP000501, AC005015, U47924, AC004943, AL034549, AL035469, Z68873, AC006323, AC002407, AP000952, AC004148, AL022718, AC000004, AC007556, AC008041, AL136295, AC006530, AL049830, AC004150, AC004814, AC006210, AC006406, AC002524, AL035415, AC009247, AC007510, AC004832, AL136501, AC006538, AP000510, Z84487, AC004012, AD000684, AP000433, AP000067, AC005004, AF196971, AC002551, AC005666, AL133448, AF001550, Z76735, AL022165, Z82189, AC006211, AC006468, AL021939, AF049895, AL031289, AC007228, AB023050, AL096701, AL096516, AC004771, AL078581, AL031588, AL137191, AC007057, AL049872, Y10196, AL096755, AL022318, AL049569, L29766, AC000063, AC005300, AC006409, AL078583, AC004953, AP001053, AC005696, AC006946, AC006359, AL050341, AC005971, AC008170, AC002530, U51560, AC002314, AC005619, Z80896, AL024474, AL031275, Z95113, AL049843, AL035407, AC004900, Z97832, AC005730, and AC002302.
HCUEO41	584	576524	1 - 447	15 - 461	AW248352, AW249168, and AA628425.
HCUEO62	585	578713	1 - 387	15 - 401	
HCUEO79	586	850090	1 - 330	15 - 344	AAI29273, AA129373, AI761842, F20339, AW291115, AA485396, AW079768, AI287824, AW243878, F32537, AW190297, AI379711, AI828574, AA830626, AI758715, AA464646, AI560298, AA629936, W31910, AA936135, AA810103, AW087812, AI801167, AI559162, AW087203, AL021407, AL137300, AF019767, AL133104, AC002480, AF030635, and L78810.

HCUEP01	587	913675	1 - 449	15 - 463	AC004967, AC005206, AC005667, and AC005519.
HCUEQ37	588	881486	1 - 349	15 - 363	AL008718.
HCUEQ56	589	751410	1 - 442	15 - 456	AW452694, and AA972635.
HCUES29	590	579033	1 - 406	15 - 420	
HCUES34	591	850096	1 - 406	15 - 420	AA084609, AI312309, AI678287, AW151848, AA757621, AL037927, AI962030, AI306717, AW084173, AI567076, AA984920, AW023389, AW402784, AI065031, AL042753, AW238495, AI186233, AA825827, AA496309, AA584655, AA747375, AA584756, AI689135, AW192179, H29914, T67090, AI303008, H40478, AW328027, AA551548, AL078581, AC007199, AC005821, AC005736, AC005081, AC005722, AC007285, AC005520, AL049301, AL049538, U80017, AC002477, AC020663, AL031311, AL021453, AC005015, Z69921, AF129756, AC000120, AC002314, AC006530, Z69653, AP000065, AL035400, AC005519, AP000512, AB001523, AL117258, AF207550, Z98742, Z99128, AC007225, AC004858, AC006146, AC005696, AC007386, AL133245, AP000121, AC007686, AP000045, AC007363, AC000041, AC002115, Z86090, AP000704, AC002350, AC005102, AL049697, AC005057, AC007537, AF064861, AC002306, AC005280, AC004560, AC003957, AL031602, Z98941, AC005899, AC005837, AC005488, AC002059, AC000353, AC004622, U91326, AC004531, Z83856, AP000688, AF111167, AC004967, AL022316, AC005746, AC004841, AC000118, AF001548, AC005682, AL049758, AC005220, AC003041, Z93930, AC007327, AC006312, AC004796, Z93244, AC004685, AC005829, AB003151, L44140, AC004962, AC004659, AC005562, AC007868, AC004408, AL096701, AC005049, AC004019, AC005500, AL023553, AB014079, AF165926, AL078463, AC009509, AC004477, X64467, AC006026, U63721, AC006120, L77570, AC004263, AL009179, Z95152, AF111168, AC004491, AC007240, AC006023, AF053356, AL022326, Z97054, AC007731, AC001231, AC005484, AC003982, AC005094, AC004686, Z83844, AP001058, AC000159, AC007367, AL031985, AC005412, AL049843, AC006538, AL021917, AF045555, AC006077, AL031295, AC003029, AC004383, AC002039, Z81364, AP000008, AC002492, AP000208, AP000130, AL096791, AC004148, AP000355, AF196969, AC002312, AL031662, AP000556, AL139054, AC007637, AC006111, AC005387, AC005355, AC012384, AC005288, AL021546, AC006254, AC007536, AC005031, AL035420, AL022165, AC004655, AC004583, AC004876, AC005529, AP000044, AL049776, AF003626, AF196971, Z68284, AC007314, AC006130, AL034420, AP000112, AP000504, AC002299, U62292, AL109984, AC006285, AC005952, Z84466,.AC006141, AL049569, AC004675, AL009181, AC005237, AC005730, AC005772, AL031282, Z83826, AP000558, AC007384, AL031587, AC007387, AL050341, AL135744, AC008372, AC006011, AC005618, AP000113, AC000026, AF196970, AC002094, AC006014, AC007226, AC002395, U63630, AF001549, AP000692, AC006441, AC004859, Z97056, AL080243, U91321, AC005632, AF006501, AC006101, AF134726, AC005212, AC002316, AC004755, AD001527, AL109827, AC005756, Z95116, AC006947, AL022324, AC006449, AP000248, D87675, AF038458, AC004941, AL020997,

HCUES93	592	576498	1 - 415	15 - 429	AC002369, AL035086, AC005781, AP000555, AL121603, AL021707, AC007283, AC006344, AL133243, AC007263, AC005527, and AC007229.
HCUET13	593	657258	1 - 160	15 - 174	AC004821.
HCUET27	594	506339	1 - 167	15 - 181	AW292137, AL039500, AI248007, AI078021, AI759999, AI476735, and Z95437.
HCUEU10	595	964857	1 - 269	15 - 283	AA353854, AC004659, AC004771, AC005914, AC005245, and AC007182.
HCUEU20	596	970780	1 - 274	15 - 288	AC007281.
HCUEV08	597	959670	1 - 340	15 - 354	Z95116.
HCUEV17	598	905316	1 - 1428	15 - 1442	AA585439, Z28355, Z30131, AI525556, AI535639, AA585101, AI541374, AA585453, AI557731, AI547039, AI525431, D80253, AI541365, AL045817, AI525306, AL041142, AL041238, AL041133, AL047183, AL040322, AL041131, AL046330, AL041051, AL041292, AL040119, AL047036, AL047170, AL047057, AL047219, AL041227, AL040463, AL039915, AL040625, AL043612, AL041197, AL040155, AL041346, AL040529, AL041096, AL047012, AL041358, AL041277, AL041163, AL041098, AL040621, AL041324, AL040464, AL044162, AL041086, AL043496, AL041296, AL041233, AI540967, AL040510, AL041159, AL045725, AL041140, AI546999, AL040193, T11028, AL043467, AL044186, AL041278, AL044037, AL040091, AL040128, AL040168, AL040553, AL040255, AL040285, AL040342, AL040332, AL040617, AL045684, D61254, AL040745, AL040370, AL043677, AL046442, R29445, AL040149, AL040839, AL041752, AL043775, AL044165, AL043492, AL041602, AL045920, AL038838, AI546945, AL044074, AL041635, AL045990, AL040253, AL040458, AL044199, AL044187, AL040090, AL040263, AL040294, AL040329, AL040082, AL044272, AL041186, AL040148, AL041730, AL041523, AL043627, AL046392, AL041374, AL040052, AL043845, AL043537, AI541523, AL039338, AL042135, AL044064, AL038983, AL039316, AL043923, AL043814, AL043848, AL041459, AL043570, AL041577, AL044201, AL044258, AL046850, T23985, AL038532, AL040768, AL037727, AI526194, AL046994, AL040414, AL040571, AL040576, AL046914, AI142134, AL045753, AL044274, AL079878, AL049018, AL040444, AL045857, AL039744, R28735, AL038822, AL045671, AI536138, AL040238, AL046327, AL041168, AL049069, AL043444, AL040075, AI557262, AI541514, AL041246, AL040472, AL041347, AI541535, AL041955, AL038761, T23957, AL080031, T41289, AL045989, AI556967, AI546828, AA585476, R29177, AL044529, AI525316, AI557787, AI526073, D51250, AL046147, T23888, D80219, AI546891, AI546855, AL039643, AI541510, D80043, AL039360, AL037435, C16300, AI526140, D59787, AL037436, AA585434, AI541508, C16305, AI525320, AL042096, AL039924, D80227, AL045794, AI535983, AL044125, AA585356, AA174170, D57491, AL079852, AI541307, D80240, AI557807, AI541205, AL038821, AL039085, D80134, AL043445, AL043441, AL039150, AI557807, AI541205, AL039156, D51423, AI557238, T24112, T24119, AI541534, AI541509, AL045211, AL039156, D51423, AI557238, T24112, T24119, AL039564, AL039538, T11051, AL039108, AL039074, AL038837, AL039625,

| HCUEV65 | 599 | 750364 | 1 - 393 | 15 - 407 | AL039648, AL039629, AL039386, AL036973, AL036973, AL038531, AL039109, AL040992, AL039128, AL044407, AL039386, AL036973, AL045337, A49045, AR062871, AR054109, I44516, AR035224, A94046, A94054, AR038307, AR038321, I25027, I44515, I26928, I26930, I26927, AR009151, AR027099, A29109, A32111, AR068508, AR068550, AR068510, AR068509, A23373, AR068551, I58322, I58323, I91969, A91752, A91751, I25041, A92081, A92080, A92077, A92078, A92079, I07209, I07249, A63954, AR009152, AR017907, AR062872, AR062873, A20702, A20700, A43189, A43188, A84772, A84776, A84773, A84775, A84774, AR067731, AR067732, A58522, A91750, I05430, I05393, A10617, AR028792, A01324, A01323, AR034783, I63120, AR067733, AR064322, AR064323, AR064320, AR064321, A94048, A94061, I85513, A70359, A32110, A83642, A83643, AR018924, AR018923, A48774, A48775, AR000006, AR015960, AR015961, AR000007, AR051652, A92666, A92668, A92667, A92665, AR019094, AR028791, AR028793, AR003585, A18053, A75888, I70384, A18050, A85308, AR007512, A91754, A44171, A63067, A51047, A63064, A63072, A49700, AR031375, AR068507, AR068506, I58669, A58521, A60213, A23334, A60207, A60208, A60111, A23633, I06859, I66487, A02712, A95051, AR043601, I84554, I84553, E13740, A35536, A35537, I13349, I60241, A11245, I60242, A02135, A02136, A04663, A04664, A02710, E12615, AR035193, A92133, A07700, A13392, A13393, I66498, I66497, I66496, I66486, AR027100, I28266, I21869, A70040, A10361, AR031374, I08051, AR038066, A95117, I19525, M28262, A91965, U87250, AR051957, I66494, I66495, AR035975, AR035977, AR067734, I48927, A25909, AF082186, AJ244004, AJ244005, AJ244003, AR038855, A98767, A93963, A93964, X68127, AJ243486, AR038762, AR051651, S78798, A98420, A98423, A98432, A98436, A98417, A98427, AR035974, AR035976, AR035978, A85395, A85476, Y16359, D78345, AR025207, AR037157, I18371, I44681, A67220, AR008430, AR066482, A85477, A85396, X83865, AR016495, D34614, A86792, A93936, AJ244007, A93016, A58524, A58523, I15717, I15718, E03627, A60212, A60209, A60210, A60211, A77094, A77095, A81878, A64973, I08396, I62368, I00682, A11623, E00609, A11624, A11178, E01007, I08395, X55486, I03331, E14304, AR031488, I13521, I52048, A27396, I44531, E16678, A82653, E16636, A90655, I18895, A24783, A24782, A27169, I09267, I09270, and I09268. AA531044, AA366245, H88258, AI636734, AI870453, AA508036, AA525293, AA469327, AA877992, AA593471, AI918419, AI609972, AI305258, T05834, T40388, AW192330, AI623563, AW089016, AI270476, AA564671, R82650, AA493789, AA947369, AI275183, AW162227, AI750125, AA502207, AW102811, AI926102, AA482953, AA366601, AI306717, AA601728, AI521525, AA381762, AA581247, H71738, T95676, AI915293, AI587467, AA613164, AA779783, AL119247, R92629, AI524540, AA084609, F35097, AA525331, AI537368, AI280535, AA595554, AI580707, AI689019, AA228778, AW020150, AA568980, C14480, T54464, AI753365, AA536040, AC007308, AC002470, AC007546, AC000041, AC007686, Z84469, AD000812, AP001053, AC004491, AC003663, AC004817, AP000702, AC005225, AC007041, AF001549, AL133382, AF024534, Z98200, AL031257, AC002477, AC005736, AC004991, |

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HCUEV82	600	881370	1 - 224	15 - 238	Z99128, AC005924, AC006165, AC005037, AL021546, Z95116, AC005620, AP000141, AC007938, AC002126, AC002375, AC007057, AC007731, AL049872, AC005102, AC007298, AF060568, AC005666, AC004859, AC003043, AC007011, AC005500, AC005911, AL035072, AF207550, AL034343, AL049764, AC005325, AL121603, AL049694, AP000065, AF053356, AC005971, AL031985, AC006958, AL109801, AL049757, AL049760, AC002350, AC004985, AC005086, AC005207, AB003151, AC006211, AC005821, AC002115, AC005081, AC002996, AC004953, AL049795, AP000688, AL117694, AL078463, AC004805, AL109628, AC007314, Z95114, AL031432, AB023051, AL049869, AP000300, AC004477, AC002316, AC000085, AC005206, AL035249, Z81314, AC009510, AC002550, AC005175, AC004560, Z94802, AC004777, AL109963, AC007327, AC005484, AC005480, AF165926, AC004955, AC004551, Z82217, AC006501, AC002400, AC004883, AC002990, AC005005, AC006111, AC005585, AF196779, AC004079, AC004033, AC005412, AC007226, Z83822, AL009181, Z98257, AC007993, AC007227, AC005752, AC005921, AF038458, AC002425, U80017, AC002094, AC002300, AC004217, AL022238, AC004815, AC018633, AL109952, AL034429, AL049631, AC007382, Z97352, AC004549, AL031777, AC009464, AC005057, U95090, AC004890, AC007917, AL117354, AF001550, AF111169, AC005667, AC004778, AC004796, AC005914, AC004099, AC007690, Z98752, AC003029, AC006312, AP000032, AL008718, AL031659, AL031680, AC004386, AL096701, AC007199, AC008038, AC004167, AC004922, AP000045, AP000113, AP000116, AL021578, AC003101, AC002544, AL031984, U78027, AC005011, AC005274, AL049748, L23859, AC005740, AP000512, AC006023, AL122020, AL021155, AL035683, AC004212, AP000311, AC004156, AC005722, Z85986, AC005529, AL031594, AL049643, AC004616, AC005330, AC005305, AC005907, AC004967, AC002119, AC005355, AC006449, AC005913, AC005332, AL133353, AL049843, AC019014, AC005328, AC005071, AC004000, AC005058, AD000092, AC006509, AC005377, AL078638, AC006011, AC004526, Z93930, D87675, AC005783, AL022302, AC004876, AC006237, AL049709, AC006276, AP000143, AP000047, AC004743, AC007225, L78833, AC004263, and AL035422.	AA348602, AI383596, AI798313, AI089178, AA553900, AL042987, M78032, AI809300, AA857812, AI038324, AI241637, AI347649, AI347852, AI628922, AA179940, AA657416, AA655005, AA021139, AI309943, AW438946, AA558366, AA346861, AI474127, AA831426, AI090377, AA594719, AA484892, AI188049, AI192465, AI347478, W76645, AA526542, AA569065, AI754421, R67701, AA683091, AA350406, R93854, AA215585, AA326452, AW264393, AA047849, AA808631, N47855, AW327852, AA557911, AI803741, AA572921, AI923052, N52323, AA297443, AC002429, AC005907, AL031311, AC005529, AL049636, AC003029, AC004584, AC000035, AC004966, Z85987, AC005987, AL049872, AC004910, AL031005, Z94802, AC005057, AC002312, AC000025, U82083, AL049872, AC004953, AC006487, AC004056, U73634, AL031295, AD000092, AC004841, D87675, AC004953, AC006487, AC004056, U73634, AL031295,

| HCUEW19 | 601 | 576513 | 1 - 344 | 15 - 358 | AC007227, AC004003, AC005841, AC005484, Z98884, AC002402, AL022400, AC007666, AF001550, AL008636, X89398, AL078593, AC005754, AC004653, AC005081, AL020995, AC004765, AC005216, AL021546, AC007390, AC004448, AC006006, AL020993, AC004185, AL049760, AC006079, AP000695, AC009247, AC007773, AC006167, AP000555, AF064861, AP000688, AC005011, Z82189, AP000501, U91326, AJ006998, AL022719, AC002544, AB009076, AL049839, AC007684, AC005670, Z99297, AC006953, AL035535, AL034553, AC007551, AL035693, AC005277, AC005881, AC004858, AL117337, AL078639, AC005372, AL133382, AC004491, AC004775, AD000864, AB017602, AC004408, AF047825, AB023048, AC004985, AL035658, AP000509, AL031846, AL035683, AC005531, Z95704, AC005082, AP000167, AF117829, AL049743, AL096774, AC000052, AL096701, AL031685, AF205588, AC005368, AC005808, AL031735, AC003692, AF001552, AL133448, AC005288, AL022334, AB003151, AL109801, AC004019, AC005839, Z68280, AF045555, Z97054, Z83838, AC006197, AC004972, AL109613, AF109907, AF001548, AC005913, AC006461, AC002477, AL034423, AL022314, D84394, AC005803, AC004476, AL035086, AC006947, AF121781, AC004783, AC008009, AC007637, AL109627, AC006141, AP000133, AP000510, AC007021, AB023050, AC005520, AC004983, AC002314, AL049776, AL109852, AB002059, AP000066, AC005667, AC005255, Z82171, AC005588, AC007386, AC005874, D84401, AF134471, AC007225, AL031428, Z97876, AC007327, AL031432, Z98941, AL031602, AL049849, AP001053, AL049766, Z98272, AC000120, L14561, AP000500, AL049589, AC007052, AL035665, Z84496, AC005376, AC006115, U95737, AL022302, AC005952, AL022320, AL132712, U91327, AC002126, and AC005091. |
| | | | | | AI801600, AW193265, AL041368, AI350211, T06828, AA553465, AW104748, AI625244, AI688846, AA652057, AA649642, AI284640, AA831527, AA513972, AI918421, AA503258, AA669251, AW301350, AW303196, AW274349, AA346458, AI367975, T40617, AW193432, AW236342, AI580652, AI367497, F18974, AI345654, AA719805, AI708009, AI298710, AI282832, AI434695, AI355206, AI610159, AA501600, AI281697, AI270117, AI446464, AW129001, AI634384, AI287651, AA228420, AW406659, AA688036, AA594145, AA347927, AA347930, AW088058, AI872227, AA079515, AA984708, AA719080, AI341664, AL041690, AI469172, AA493206, AA251117, AA649705, T71030, AA557879, AI886629, AI805607, AW021747, AI696962, AI266133, F29702, AA664015, AL044940, AA745582, AA551503, AA368936, AW072587, F19012, AA747472, AA367986, AA568778, AL046409, AA824655, AA824654, AW439558, AI471481, AI002834, AA252763, AL138265, T15977, AI431303, AW276827, AA515224, F36273, AI613280, AI340453, AL041412, AI565582, AI291124, AW062724, AI802526, AI160117, AW238278, AA563926, F33511, AA100599, AI282336, US1696, AI291268, AW338086, AA302963, AW339568, AI375710, AA723017, U18396, X54176, I51997, U57004, X55922, U18399, U18393, U18398, U57006, X55930, U18394, U57005, U57009, U18391, U18392, X55925, U18390, U14684, X54180, X55926, X54184, U14701, U57008, |

HCUEW58	602	1 - 395	850061	15 - 409	X55932, U02063, X55931, U14703, U14707, U14702, X55928, U02048, X54175, U18387, AF196779, X54179, U18400, AF015166, S70699, AF147277, Z22650, Z30993, U67828, S70689, S70692, AF015149, U67827, AF064724, X53550, AC005799, Z49816, AP000553, AC007114, AF077058, U67829, AC005624, AC004381, AF015154, AC004542, AL117258, AF015151, AF001550, AF015157, AC007664, AF015156, AF015147, AC004929, U75285, AF164343, AC007874, Z95114, AL031417, AL031255, AC002045, AC009516, U67831, Z95115, U47924, X74558, AC005043, AC005535, AL008718, AC005527, AC007738, AC003007, U67233, AC006312, AF018071, AL031709, AL049776, AC004878, U67231, AB020865, AC004638, AL049869, AC006011, AP000297, AL021453, U85195, AF060568, AC003119, AF085444, AC005387, AC004955, AP000510, AL035659, U50871, AC005330, Z69917, AC005632, Z49235, X88791, AC006363, AC004876, AC000379, AD000092, AE000658, U29953, AC005412, X60459, AC003111, AL031589, AF134726, AC007064, AC000052, AC004797, AC004167, S77605, AC002091, AF147439, AC006116, AP000402, AP000517, AC000999, AC007041, AL034420, U67225, AC007055, Y14768, AP000501, AC005529, AL078603, AC009891, AC004069, AF038458, AL035587, AC002312, AC006111, AC006013, AF045555, AC004019, AC006285, AC005763, AL031259, Z82198, AF085913, AC005144, AC004812, X76629, AC004033, AL133243, AC004815, U67222, AP000505, AL022310, AC005324, AC005194, AC002307, AC004894, AC003006, AC004821, Z69921, AC002094, AP000338, AC007792, AC005821, AC004531, AF094481, AC004522, AL121655, AC005375, AC005072, Y14486, AC004785, AC007666, and AC004453.
HCUEW71	603	1 - 198	881372	15 - 212	
HCUEX58	604	1 - 343	462365	15 - 357	H59974, H80899, AL020997, AC007308, AC005081, AF045555, AC007637, AC004686, Z95113, AC004953, Z81369, U95739, AC005049, AL079295, AC002302, AC004491, AL122020, AC005488, AL049869, AL008721, U89337, AC003009, AL031584, AF152365, AF222686, AC006013, AC003663, AC005325, AC007938, AC004854, AC006515, Z99570, AL117337, AL121655, AC005005, AF190631, AC006115, AP000510, AL022316, AC006101, AC007785, AL008726, AC004859, AC005391, AC005102, AL031311, AL132992, AC004477, AC004104, AC004019, AL080243, AL132777, AB023048, AC005632, AC009721, AC007263, AL022343, Z74617, AC006111, AC005971, U07562, AC004685, AC003029, Z82208, AC006271, AC005899, AC004832, AF064861, AL022318, AJ246003, AD001527, Z97054, Z93930, AC005288, AC003689, AC004762, AL109758, AC005015, Z98946, AC006040, AF001549, AC005011, AL121658, AC004893, AJ003147, AC004785, Z84467, and AC002369.
HCUEX74	605	1 - 326	953897	15 - 340	AF150416.
HCUEY29	606	1 - 378	920419	15 - 392	
HCUEY48	607	1 - 387	576519	15 - 401	R24915, N32878, R07374, AA748826, AI287921, AI051037, AA626829, AA569065, AA745356, H91844, N64587, AA879053, AA055601, AI984593, AW271917, AA657416,

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Clone	No.	ID	Range	Range	Accession Numbers
					AA837715, AA655005, AI908575, AA525409, AA640617, AA457249, AA827771, AA888777, T03203, AL047411, AA176917, AA594188, AI537330, AF034193, AA613966, R80456, H79308, W02971, L78810, AC006509, AL022163, AC007308, AC005920, AL049844, U80017, AL109963, AC005274, AC004000, AC005060, AL031666, AC005231, AL035420, Z68223, AC004148, U82828, AF165926, Z99716, AP000501, AC007276, Z82244, AC004895, AC005606, AC005914, AL008635, AC005701, AC006449, AC007055, AC005280, AC005363, AC004887, AL022320, AC006285, AC004646, AC005081, AC004228, AF109907, AC005378, AC006441, U73024, AC002350, AC002394, AC006241, AC005411, AC006011, AP000356, AC005913, AC007876, AL031283, AC004623, Z83840, AC005023, Z98051, AC006050, AL020997, AF196779, AC004217, AC002301, AC005206, AC004209, AC005406, AL020995, AC004858, M30688, AL035460, AC006538, AL031431, AF207550, Y10196, L44140, AL031295, AF064861, U47924, AC002133, Z82214, AL021918, AL035683, AC003695, Z82201, AL035410, AF172277, AP000472, Z82214, AL021918, AL035683, AC003695, Z82201, AL035410, AF172277, AL035413, AC004528, AC004019, and AL121603.
HCUEZ288	608	576537	1 - 326	15 - 340	AI028483, and AW023910.
HCUFA05	609	932116	1 - 385	15 - 399	Z93023.
HCUFA38	610	675677	1 - 324	15 - 338	AA626710, AW138429, AI087993, AI077877, N69907, AA657613, AW162236, AI161164, AI356294, and AC004067.
HCUFB15	611	660460	1 - 257	15 - 271	
HCUFB89	612	746601	1 - 305	15 - 319	
HCUFC22	613	951134	1 - 306	15 - 320	
HCUFD09	614	625728	1 - 292	15 - 306	T64920.
HCUFG64	615	576574	1 - 102	15 - 116	
HCUFH32	616	920281	1 - 227	15 - 241	AA679737.
HCUFK94	617	722999	1 - 175	15 - 189	
HCUFL02	618	932429	1 - 447	15 - 461	AC000159, and AB007864.
HCUFL15	619	575844	1 - 448	15 - 462	
HCUFL35	620	677853	1 - 413	15 - 427	R98755, R98754, AA642005, and AW292993.
HCUFL77	621	575843	1 - 357	15 - 371	R09221.
HCUFM60	622	730707	1 - 444	15 - 458	AI824558, AI375432, AA887250, AI914747, AA558412, H93568, AI003725, W89152, AC007229, AC000353, Z99716, AP000355, Z95114, U91321, AL034400, AP001052, AL021155, AC004821, AL133500, AC004985, AL049869, AF134726, Z73964, AC004812, U91318, AC002070, AC003950, AC006441, AC007227, AF001549, AC005829, AC004834, AL022476, AC002394, AC005919, AF064860, AC004687, AC005484, AC004491, AC004382, AC006016, AC002126, AC007565, AC005527, AC002996, AC005971, AC007371, AC004448, AC005057, AC005182, AC004646, AC007054, AC004851, Z98044, AL022313, AC009330, Z79997, AC000003, AC009542,

HCUFM65	623	576809	1 - 452	15 - 466	AC004882, AL080243, AB001523, AC005377, L44140, AL096791, AL009181, AP000502, AC006211, AC005952, AC005529, AP000350, AC004216, AC004546, AC000077, AC003029, AC004472, AP000194, AL109657, AL078611, AL121595, AC004778, AL133353, AC007151, AC003690, AC005913, AL049569, AC004587, AC004820, Z98752, AC008989, AL022163, AL031588, AC000029, AC007055, AC002400, Z94056, AC004590, AC002039, AC005915, AC006241, AC004890, AC006509, AP000047, AL031276, AC002352, AL031985, AL117694, AL031673, AF053356, AL096701, AB003151, AL035089, AC005102, AP000552, AC006039, AC008072, U91323, AL021939, AC002303, AC003003, AL022323, AL022721, AP000117, AC004990, M90058, AF061032, AJ003147, AC005011, AC003101, AL050350, Z84487, AP000115, AL023575, AC003110, AP000512, AC004967, AC006505, AL024508, AC005193, AC005881, AC005332, AC004703, AL034417, AC006461, AC005015, AC005081, AP001054, AC004796, AL096702, AC004678, AC002468, AC007406, AC002470, AP000066, AC002350, AC008372, AL031005, AC005736, AL020997, AC006274, AL096703, AC005531, AC004841, AC004938, AC004686, AC005089, AC002425, AL117258, AC003010, AC005763, AP000555, AC005839, Y12787, AC002492, AC007688, AL008718, AC004854, AC007382, AP000501, and AL121757.
HCUFN65	624	741927	1 - 487	15 - 501	R47962, AA731533, and AJ950023.
HCUFP13	625	576582	1 - 339	15 - 353	AA046457, AI373707, AI864613, AA054000, and AA015959.
HCUFP76	626	861703	1 - 293	15 - 307	
HCUFP91	627	575864	1 - 140	15 - 154	
HCUFQ80	628	709357	1 - 455	15 - 469	R89560, AA483606, AA570740, AA568204, AA664126, AI250262, N63755, AW083408, Z22963, AA015948, AA768179, AA482725, R89906, T05684, AW152348, AA565679, AA302978, AA633981, AI114772, AI866911, AA503018, AW002330, AA731361, AA487209, AW151018, AI821382, AI820534, H56703, AL120052, AA626411, AI801649, T50251, AA676592, AA810837, AL039801, AA229823, AI065038, F35684, AA228979, AI804539, N24909, AI889579, T51436, AW272815, AA572921, T63030, AA515723, N71619, AA564925, AA837771, AA745297, F31811, AA297006, AI800345, T05617, AW419126, H62923, AI709180, AA228442, AA862075, R34070, AW021608, AA507343, AI791437, N37070, AI732483, F00949, AL041895, H07953, H69653, N95817, AI206078, AL048838, AL041019, AL048825, AA177013, H59651, AW409763, AP000163, AB022537, AC005841, AL031228, AC005858, AB019437, Z95704, AC005192, AC002377, AC003083, AL035494, AC005799, AC004986, AL031432, AC005632, AC004772, AF109907, Z97180, AC005837, AC006406, AC004858, AC004987, AL031277, AC002550, AC003007, AC005820, I34294, AP000548, AC000120, AP000365, AC006597, AC007731, AC005500, AL022721, AC005089, AL096701, AC004526, AL096712, AC007227, Z83844, AP000561, AC006030, AP000116, AL049872, AL050318, AC005057, AL109980, AC004033, AC003025,

Clone	No.	ID			Accession Numbers
HCUFT26	629	575721	1 - 426	15 - 440	AC004228, AC004796, AC004884, AL009181, AC006057, Z85987, AL049692, AL024498, U91326, AL031577, Z49235, AC005793, AF047825, AC005037, AL009178, AC006146, X71402, AC002314, AC006013, Z68756, AL008635, AL031680, U47924, AL008719, AC002558, AL135744, AC007358, AB016897, AL133246, AL022311, AC005086, AC005545, U62293, Z93241, L48038, AC010205, AL132987, AC004686, AC004263, AP000311, AC005358, AF001549, AB023049, AC006023, AC006088, AL033521, AC002059, AC007276, AL080243, AF022336, AL049761, AL049833, AF069291, U80017, AC006948, AC002549, AL031584, AL022343, AL109952, AL049713, AB015355, AC020663, AC005703, AL022719, AC005409, AL109984, AC004659, AL049591, AC005800, AC006006, AC005005, AC004234, U95742, Z95116, L44140, AC003026, AJ003147, AC007216, AC005763, AC005183, Z83843, AC004386, AF029308, AC007435, AC000003, AC005257, AL031123, AC005219, AC005231, Z81364, AL121823, AC009286, AC004880, AP000251, AL033381, AC006241, AC007429, AC004656, AC003689, AL031668, AC005874, AF134471, U78027, AF196972, AC007226, AC007688, AF111169, AC004596, AL133245, AC007066, AC005940, AC006285, AB001523, AC007367, AL031005, Z94801, AL035422, Z97053, AC000026, AF207550, AC007540, AL049538, AC004834, AL009031, AC002326, AC005069, AL035071, AC004382, AL096861, AC004024, AC001231, AC002563, AL034423, AC004864, AC005488, AC005516, AP000030, AC007151, AL031447, AC004817, AC004594, AL031291, AL035413, Z82176, AC004805, AF217403, AP000511, AP000555, AL133312, AC006344, AC005821, AC004531, AL034549, AL096791, AC008119, AC004783, AC007278, AC007388, AL020997, Z93020, AF143315, AC005696, AL132712, AF196779, AC007388, AC006014, U91325, AP000066, AC005520, AL096774, Z94802, AC000387, AC016026, AL022313, AC005962, AC005412, AC004655, AJ239318, Z84469, AL035405, D84401, and AL008718.
HCUFU36	630	575831	1 - 251	15 - 265	AC007879.
HCUFU49	631	953896	1 - 337	15 - 351	AW403674.
HCUFU58	632	725891	1 - 444	15 - 458	AA088560, AI733762, AI733719, and AA053641.
HCUFU68	633	694410	1 - 312	15 - 326	AA077835, AII49915, AC005914, AC007785, AC005082, and AC006371.
HCUFU91	634	828083	1 - 323	15 - 337	AA361129.
HCUFV13	635	578459	1 - 357	15 - 371	AA618332, and AC004883.
HCUFV44	636	576650	1 - 322	15 - 336	T65857, AI678013, R44293, R40978, H24231, F01849, AW177822, T92856, AW177816, AC006537, U73166, AC006512, AC000353, AC005102, AC004685, and AC004458.
HCUFW41	637	850007	1 - 571	15 - 585	AL031666.
HCUFW61	638	862086	1 - 442	15 - 456	T08386, AI636734, AA947369, AA077619, R34070, AA830070, AW151018, F09355, AA598605, AI799421, AI459943, AW019964, AI271762, AA565319, AA612727, AL121287, AA788592, AA721554, AA664126, AW408767, AA745302, AA742818, AA878407, AA938390, AI052776,
HCUFW75	639	575830	1 - 307	15 - 321	

AI160786, AA525293, AA736557, AA594719, N41775, AA579399, AA508036, AW440368,
AL134167, AA553457, AI732911, AI904944, AA515926, AI459904, AI284045, AA846923,
AW054936, H38769, AA502207, AI918419, AW102811, T90477, AI824476, AA715508,
AW338860, AI819391, AI567391, AI749893, H12857, R69819, AI823705, AW028950, AI925065,
AI025930, AW161016, AW088631, N68449, AA715075, W24312, AW238253, AI053784,
AI355873, AA847831, F35684, AA558748, AA501867, AI879951, AI335963, AII33514,
AA993636, H79586, AA599080, AI114704, AA219349, AA634926, AA503018, AI306717,
AI904840, C06004, R83068, R67701, AL120543, AA772704, AW264901, T54144, AA297207,
AA715173, AI250262, AI417586, W95552, C14330, AA326904, AA564682, AA469172, T51556,
AI923052, AA493947, T50676, AA336058, AA582374, AI289050, R93919, AA838091,
AA603264, AI284092, AA230146, AI479068, AA650447, AC005971, AL034549, AL035457,
AC006547, AC004765, AC005696, AC006317, AL109952, AL096791, AL049589, AC000003,
AC000134, AL031848, AC006057, AC006512, AL035682, U47924, AP000337, AP000216,
AC006581, AL096701, AC006449, AL020996, AL049759, AL049643, AC006141, AL035443,
AC004858, AF015416, AL031291, AC004815, AF045555, AL109628, AC004148, AF109907,
AC006088, AC005664, AC005531, AC005566, AC004882, AC003037, AC005632, AC007637,
AC005081, AC004263, AL035405, AL023879, AL022721, AL022400, AC002350, Z99943,
AC005519, AC005529, AL022238, AC007917, AL035588, AL031295, AC004019, AL021939,
AC005874, AF134471, AC005952, AL031737, AL049869, AC002369, AL049653, AC004262,
AC005881, AP000566, AC010206, AC000097, AC005089, AL020995, AC005921, AC004668,
Z98750, AC005237, AC004106, AC005736, AC006211, Z83840, AL096773, AC006480,
AF047825, AC004098, AC004587, AL009179, AF146024, AL049697, AL135783, AL080243,
AF200465, AC006597, AL023803, AC004675, X55448, AC005859, L44140, AC005082,
AC004223, AC005046, AD000092, AC007552, AC007371, AC006464, AC002992, AC003108,
U91324, AC005837, AF196779, AB012286, AC004985, AC006017, AC009247, AL049839,
AF088219, AC005670, AC005229, AC005488, AC002300, AC003010, AC007934, AC004859,
I34294, Z95331, AC003024, AC005765, AC002544, AC000052, AC007993, AC006121, AL049776,
AC004757, AC006561, AC005154, AF064861, AJ003147, AP000310, AP000309, AL035400, Z83826,
AC007566, AC005777, AC002394, AP000048, AC005376, AP000116, AL031230, AC004216, AL035447,
AC007228, AL109984, AC005913, AC005011, AC006071, AR036572, U91328, AC006210,
AC005962, AD000812, AC002126, AC004050, AC007406, AC006064, AC003043, AP000555,
AC005618, AC006390, AC006014, AL035071, L77570, AF050154, L78810, AP000229,
AP000144, AL109967, AC004583, AC007057, AL049872, AC003665, AC005726, AL031321,
AC007201, AL031707, AC005578, AC004974, AC003690, AC000090, AC007938, Z73359,
AF196969, AL031767, AC005822, AP000555, AC006208, AL022311, AC004629, AL136295,
AC007687, AC007055, AC004042, AL033543, AC004000, AC004099, U91318, AL031587,

HCUFW83	640	577263	1 - 401	15 - 415	AC007842, AL133382, Z84484, AL008719, AJ229041, AC006318, AC006077, Z98044, AC005559, AC005225, AL050350, AC007014, AC002378, AP000272, AC002458, Z98052, AC004953, AC006312, X96670, AC000035, AF149773, AC005164, AC008067, AF038458, AP000503, AF029308, Z86090, AL031311, AC006251, AC005152, U02051, AC009509, AL031005, AP000553, AC004991, and AC004381.
HCUFX24	641	577266	1 - 178	15 - 192	AW449501, and AI751021.
HCUFX74	642	850067	1 - 564	15 - 578	
HCUFY27	643	669876	1 - 112	15 - 126	
HCUFY35	644	577130	1 - 337	15 - 351	AW339568, AW270284, AI305766, AI298977, AI565581, AW102955, AI345522, AA658235, AI357551, AI203955, AI344844, AL120008, AI340453, AI557323, F33121, AI708009, N69962, AI937850, AA225201, AI379719, W07122, AI110848, AI880168, AA657741, AI053786, AI254338, AI349874, AL134330, AA993198, AI801591, AI084012, AW169687, AW403720, AI345654, AW265009, AI802526, AA581903, AA569284, AW327360, AI697353, AA369477, AA484148, AF034176, AI423941, AI473943, AI889765, AI161293, AI923140, AI924251, AI888110, AI890928, AI890570, AW157326, T71998, AI225141, AW265294, AI358571, AL043756, AA715362, AA251117, AA715270, N43757, AL023575, AL031675, Z98950, AC006211, AL033397, AL049780, AC007055, AC006146, AL034419, AP001039, AC007540, AC005544, AF042090, AC005226, AL033381, AC005906, AC005245, X13921, AC002536, AL021391, AC002430, AC007384, AL049557, AP000295, AL109754, AC005856, Z85996, Z95113, AL022318, AC005684, AL022396, AC002394, AF091512, AC005548, AJ003147, AC004381, AL031311, AC003087, AC004228, AC022517, AP000354, AC007917, AC005821, U63721, Z82194, AC005274, AL137191, AC005386, U07000, AF011889, AC005772, AC004408, AL022147, AC006037, AL031668, Z98049, Z98257, AC007160, AL121580, AL031447, AC007652, AL034376, AC004770, AC006213, AF064866, AB015752, AF029308, AC005722, AL109758, AL132987, AC005070, AP000356, Z84814, AC006840, AC002470, AL034350, AC006996, AC005005, AC005912, AC008012, AL031368, AL034370, AC002070, AC007878, AP000245, AD000684, Z97205, AC009405, AL021977, AF001552, AC005664, AP000958, AC005697, Z93942, AC005820, Z94044, AC005694, AP000566, AC004887, AP000120, AP000167, AP000052, AC004941, AP000961, AC006253, AC006547, and AC005220.
HCUFY40	645	967273	1 - 194	15 - 208	
HCUFZ81	646	878882	1 - 346	15 - 360	
HCUGB48	647	880730	1 - 470	15 - 484	W24312, AA634926, F11421, AW007247, H60486, AA569089, AA938390, Z95331, AC006441, AL022316, AF111168, AL035659, AC012384, AC002378, AC002565, AC007546, AL079342, Z99716, AC005952, AC005225, AC005722, AL109627, AC004876, AP000356, Z83840, AC002119, AL109657, AC005822, AC005736, AC005089, AD000813, AC007066, AL049856, AC004832, AL080243, AL096791, AP000349, AL049709, AC005091, AC007011, AP000113,

Gene	SEQ	Clone	Range 1	Range 2	Accessions
HCUGC96	648	575825	1 - 546	15 - 560	AP000045, AL035249, AC006449, Z98304, AL033392, AC002040, AL031662, AC004099, U82668, U80017, AL035086, AC004966, AP000493, AC007384, AL035695, AC005360, AC007182, AL133448, AC005903, AL034549, AL022322, AC005355, Y07848, Z93020, AL030996, AC006001, and AC005031.
HCUGD15	649	660343	1 - 429	15 - 443	R64618, and R64619.
HCUGF18	650	666495	1 - 309	15 - 323	AI821309, T57758, AI820666, T91659, AI732244, T93260, AC007344, AC002542, AL139054, and AL109946.
HCUGF61	651	741842	1 - 393	15 - 407	AC009411.
HCUGG25	652	678112	1 - 164	15 - 178	
HCUGH01	653	916600	1 - 316	15 - 330	R09190.
HCUGH30	654	778735	1 - 436	15 - 450	AI248117, N34987, and AI242866.
HCUGH34	655	706469	1 - 300	15 - 314	
HCUGH83	656	862078	1 - 188	15 - 202	AP000011, and AP000153.
HCUGI29	657	584711	1 - 669	15 - 683	AA011550, AA854029, AI808348, AA448255, H61005, AL035067, AL121934, and AC000004.
HCUGI54	658	715310	1 - 154	15 - 168	
HCUGJ35	659	850046	1 - 280	15 - 294	AF150363, U25791, and Z64124.
HCUGK10	660	850035	1 - 347	15 - 361	AW131457, AI792578, AI054419, AA720732, AI244356, AW008089, U95742, AL121603, U91326, AC002544, AC004019, AL022476, AC005527, AC005668, AL034420, AC005670, AC008044, AC007216, AL031255, AL133245, AP000501, AC005971, AC006486, AC003104, AC010169, Z97205, AL022336, AC005484, AC005529, AL109985, AC006948, AL096791, AC003101, AC002312, AC004967, AL121658, AC005031, AC002470, U80017, AL109827, Z81364, AC005921, AC005839, AF205588, AP000105, AP000037, AL049795, U47924, AL117337, AP000354, AC002369, AF190465, AL031670, AF134726, AC005291, AC006441, AC005399, AP000228, AC006241, AC007201, AP000140, AC003688, AC005800, AC004230, AC006312, AC006384, AP000275, AC006511, AC006538, AC007386, AL021368, AL049776, AP000088, AC005482, AC006972, AC005412, AR036572, U91328, AC004655, AC006116, AC004526, AC005841, AC005539, AL049869, and AE000658.
HCUGK91	661	790218	1 - 135	15 - 149	AI049931, AA133226, and AC007685.
HCUGL14	662	658467	1 - 313	15 - 327	F33566, N71930, AL042753, AI888008, AI499094, AC002119, AC005772, AL031589, AF165926, AC006241, AC007676, AL031587, AC012599, AC005730, AL008582, AC009248, U62293, AC005527, AC004686, U85195, AC006273, AL021154, Z98051, AL133245, AE000658, AL096701, AL035684, AL050333, and AC002115.
HCUGL84	663	496491	1 - 304	15 - 318	
HCUGM08	664	959488	1 - 364	15 - 378	T63954, AA648150, AW438856, W04941, AW236344, H85059, AI016704, AA188665, AW277253, R44641, AA714586, AA593471, AI472075, R70333, AA297698, AA043218,

HCUGN12	665	970727	1-444	15-458	AA206629, AA078831, F01222, N54179, AI797892, AI345717, AI287921, AL020997, U62293, AL035681, AC005057, AC005089, AC006285, AC016025, U80017, AC007919, AC005162, AL031848, AC004895, AC005081, AL034429, AB011134, AL031846, AC010209, AC004686, Z49236, AL049759, AC005914, AL022320, AJ007042, AC006077, AL049776, AC006064, AC007191, AC005480, Z83826, Z99943, AL021808, AC004999, AL035684, AP000359, AC005387, AC005215, AC005058, AL021393, AL049874, AC002347, AC006001, AL035072, AC004859, AL031255, AL132987, AC001228, AC004817, AL031276, AC005837, AL008582, AC005210, AC004814, AL034379, U66061, AC004217, AL096712, AL121603, U02050, U82672, Z84480, AL035448, AL121769, AC005520, AL133448, AL034430, AL133163, AP000555, AP000031, AB015703, AB007956, AL022326, AC004882, AL139054, AC004019, AC007160, AC005082, AP000134, AP000212, AC006501, AJ239325, AC004531, AL031431, AC020663, AC006486, AL049713, AC003029, AF064858, AR060394, AC005839, U62292, AC005399, AC004000, AL031005, AP000563, AL031666, AC005512, U82671, Z93020, AC005529, AC006047, AC000026, AC004887, AL109758, AC005231, AC004216, AC007151, AL132777, AC006211, U63721, U95742, AC002059, AL031311, AC004990, Z99127, AC002404, AL035398, AF165926, AC005887, AC005216, AL109628, AC005746, AC006111, AP000141, AC004526, AC005874, AF134471, AL021154, AC004841, AC003966, AC007308, AP000512, AL049869, AL049712, AP000558, AP000211, AP000133, AC003109, Z97054, AP000509, U95740, AP000556, AL121655, AC002470, AC005015, AC004520, AC004704, AL023879, Z74739, AC004057, AC005348, AL109839, AC002511, AB023049, AC010206, AF064866, AC005900, AP000088, and AC006479.
HCUGO02	666	920154	1-340	15-354	AA702118, AW381452, W95006, W95007, and AC002375.
HCUGP83	667	850029	1-206	15-220	AA127364, AC004033, AC005500, AL049856, AC007731, Z98941, AC002477, AC006088, AC002390, and AL021391.
HCUGQ16	668	917269	1-343	15-357	AC002559.
HCUGQ18	669	666474	1-353	15-367	Z54621.
HCUGR38	670	706471	1-332	15-346	AI686509, AI670941, AI380740, AI652572, AI810486, AA251386, and AF070587.
HCUGR82	671	916538	1-425	15-439	AA492380.
HCUGT92	672	692730	1-349	15-363	
HCUGU46	673	666815	1-200	15-214	
HCUGV38	674	850032	1-361	15-375	R96187, AA327572, R96188, AA582056, AW084237, AI791180, AI821138, AA508578, AW194802, AI623499, AA649148, AI932902, AA707289, AA669816, H54292, AI889612, AI623423, AA573189, AL041364, AA085863, AA380599, AA357240, AA078084, AA594725, AI926366, N54179, AI446638, T61853, AI660594, AA365144, AA584749, AI124660, AA650135, AA864575, AA806762, AA524668, AI863399, C14600, AI064952, AI963720, AA516326,

					AA351926, AA947837, AA826144, AL046409, AA078483, AI345161, AW021917, AA525915, AA483043, AA708213, AA167741, F31799, AW150689, F37223, AA715606, AI678392, AI110770, AI453233, AW274064, AI613280, AL041450, AW194267, AC006001, AC004209, AL031286, AC004477, AL049795, AC007637, AC004491, AP000289, M15958, AC003010, AP000042, AP000110, AC005332, AC004383, AL078584, AC007376, AC004985, AC002364, AC004216, AC005778, AC002984, AC007686, AC002527, AL049869, AC006285, AC007011, AC016025, AP000514, U95740, AC002996, AL031985, AL022328, AC005632, X87344, Z84487, AC002350, AC004134, AC007564, Z84469, AC004000, AP000502, AC004217, AL050343, AL117694, AC006251, AL031594, AC005006, AC004020, AC006088, AC006430, AC006538, AC005224, AC002301, AC007685, AC005261, AC002331, AL031311, AL031685, AC003108, AC008124, AC003037, AC005736, AF134726, AC005996, AL117352, AC004770, L78810, AC004448, AC005488, AC005072, AC005015, AC004968, AD000092, AL031584, AL022339, Z99716, AC004552, AC003663, AC002041, AJ011930, AL133353, AC005104, AL049872, AF001549, AP000065, AC005229, AF196779, AC005971, AC005932, AF030453, AC005089, AC005666, AC005258, AC004938, AL121653, AC004019, AC005041, AC005088, AL049766, AC006597, AC005722, AC005067, AC005513, AC007056, AL034554, AC006014, AC007298, AC003070, AC004125, AC003983, AC007690, AP000557, AC007050, Z82178, AC002132, AC004983, AL031587, AC005899, AL121655, AL121603, AP000045, AC005379, AC005755, AL034548, AL078621, AC005187, AC005252, AL035530, AC002126, AL022329, AC007541, AC005747, AC004910, AP000167, AP000052, AP000692, AL049643, Z93017, AC008115, AC003689, AL121852, AL133448, AL049759, AL139054, AL121748, AC006372, AC007731, AP000556, AF001548, AL031010, AL049758, AC003007, AL031589, AL031729, AC004253, AF024533, AL133382, AC005288, AC005184, AC007666, AC002352, AC004195, AP000553, AF031078, AP000116, AC007055, AC004841, AC005519, AC005414, AC004933, AC009464, AC005912, AC004815, Z82244, AP000211, AP000133, AP000049, AC006312, AL121694, AF030876, AC005081, AC008928, AL049760, AL121652, AF053356, AC005230, AC005529, AC006480, AL035681, AC005231, AL049709, AC006006, AC007671, AC006050, AP000311, AC006079, AC004821, Z92540, AC005280, AC004531, AL049829, AL031427, Z98751, Z93244, AL022336, AC004859, AF091512, AC003026, AC003972, Z85986, AC004757, AC002400, AL049712, AL033527, AC004765, AL031053, AC005412, AC005158, D87009, AC005876, AC005057, AB023048, AC012384, AL031767, AF139813, AC007276, AL050307, AC007214, AC005037, AC006203, U52112, AC005914, U85195, AB020863, AL133355, AL031846, AL022326, AL117258, AC005531, AC007684, AC007227, and AC004492.
				15 - 426	AC007964, AJ229041, AF020802, and AP000687.
				15 - 271	AI557735, AI541487, AI541489, AI526178, AI557747, AI526178, AI541516, AI526200, AI557797, AI541491, AI557718, AI541501, AI526151, AI557724, AI557740, AW393605, AI526177,
HCUGV60	675	496443	1 - 412		
HCUGW04	676	960596	1 - 257		

HCUGY26	677	953550	1 - 480	15 - 494	AI526179, AI541535, AI557789, AI541490, AI526127, V00124, V00125, J00032, J00030, J00036, J00034, J00037, J00038, AB010555, and AB010556.
HCUGZ15	678	792418	1 - 363	15 - 377	T86914, R11217, H81306, AL035495, AC005325, AC004836, AP000350, and AC020663. AA580889, F35659, AI446464, AI064864, H29303, AA610491, AI792108, AI079129, AW274349, AW303196, AW301350, W45336, R89436, AW338086, AA663306, AI886629, N273353, AA847997, T06652, AI872460, AA558227, Z81364, AL080243, AP000557, AC009516, AC006016, AC007556, AP000556, AP000552, AC008372, D87001, D88268, AC007021, AC005574, AC004741, AC006019, D87675, AC004614, AC005542, Z84487, AC004859, AF011467, AL031686, AC006441, AL035411, AP000141, Z75894, Z75895, AC004467, AC006313, AP000088, AC004814, AL031122, AC005071, Z98884, AF090944, AL008582, AC004702, AC004894, AL031662, AC005899, AC000035, AC005049, AC004821, AC005690, AC004448, AC007934, AC005971, U95743, AL109963, AL024474, AP000104, AP001052, AC006925, AC006211, Z49236, AC006561, AC002369, Z84480, AC002456, AJ010598, AL031276, Z98052, AC002981, AC005531, AL035695, AL079340, AL031666, AL049856, AC006600, AL109847, U66059, AC004841, Z85987, AL133245, D86999, AC000090, AC006292, AL050332, AC006203, AF111168, AL023713, AC008984, AC004777, AL031767, AL022337, AC005799, Z84488, AC002289, AC002485, AC010072, and AL078593.
HCUHA63	679	745094	1 - 296	15 - 310	AA494014, AI628859, AL041352, AW002330, AL035249, AC009247, AL121757, AC006057, AL121769, AC004217, AC004134, AL050341, AC006449, AC004143, AC005284, AC002369, AC005351, AC000120, AC005206, AC005667, U80460, Z83822, AC006315, and AC002128.
HCUHA74	680	576850	1 - 434	15 - 448	AA629699, AP000346, AP000347, AL021368, and Z79145.
HCUHB30	681	850018	1 - 438	15 - 452	AW440928, N58862, AA613460, and Z97989.
HCUHC25	682	920830	1 - 305	15 - 319	W39262, AI797360, and AI823657.
HCUHC41	683	712343	1 - 354	15 - 368	Z98036.
HCUHC45	684	671212	1 - 354	15 - 368	
HCUHC69	685	693007	1 - 189	15 - 203	
HCUHD50	686	650854	1 - 398	15 - 412	
HCUHD55	687	705384	1 - 479	15 - 493	AW419262, AI284640, AW238016, AI053672, AA559290, AA077776, AI536625, AA837771, AA614069, AI653886, AA365302, AW021917, AW419389, F32926, AI499938, F24728, AI926233, AI761471, AI299050, AI334443, AA167741, AA302963, AA489775, AW023111, AA526724, AA843450, AI915081, AI357823, AA652057, AA346586, R67701, AA804379, AA528500, AA973803, T80500, AW248940, AI185394, AI754291, H67172, AI561116, R91994, AL046746, AA486820, Z23147, Z61362, AC004126, AL109627, AL031255, AC006948, AC000134, U02058, AC005482, Z99755, AC006270, Z82244, AC006270, AC006125, AL031281, X54176, AL133353, AL031732, AC004526, X54181, X54178, AC006511, AL031432, I34294, AP000115, AC005317, AC002492, AC002316, AC002990, Z84476, AC005747, AC005291, AC005378, AC006070, AL035659, U89337, AL031055, Z84488, AL135744, AL031587,

HCUHE23	688	675910	1 - 314	15 - 328	AC008372, U47924, AC004820, AC004381, AL034419, AC003101, Z84484, X54177, AC003003, AL022336, AC007308, AC002463, AC006126, AC003108, AL049757, AC004134, AC005375, AL008583, AC005365, AL117258, AC006241, AC006312, AD000813, AC009181, AC008116, AL080317, AP000474, AL023803, AF001552, AF196779, AC007537, AC005581, AC004453, AL096703, AP000212, AC002418, Z83843, AL117330, AC004130, AC003668, AC006120, AL033375, AP000080, AP000152, AC007066, AC004382, AC007030, AF190465, AC002558, Z94801, AC007735, AC006137, U73634, U29953, AF178081, AC004544, AC007228, AC004518, AL096701, AC005412, AC006257, AC005512, AL022323, AC002425, AC005081, AJ009610, L48038, AL022576, Z85986, AP001060, AP000289, AC005217, AC000003, AF088219, AL022316, AL035420, AC004929, AL008719, AP000110, U02531, U80017, AC004386, AL049569, AC006543, AC005839, AC005410, AC007919, AD000092, AC007707, AC003029, AC005406, AC006251, AC007387, AC007564, AL049589, AC005189, AC007731, AC005913, AC005500, AL034553, AC002119, AP000090, AC005726, U02532, AL049576, AF067844, AC004216, AC004217, AC006544, AP000552, AC002352, AL080286, Z97195, AL020993, AL031284, AC007536, AL050333, AL031733, AC008149, AL034406, AC007425, AL121769, AC004554, AF111167, AC008163, AC006552, AL035072, AL035683, AL033543, AL033521, AC006323, AC006277, AC000026, AF111169, Z82215, AL109628, AL031685, AL034420, AC007563, AL021392, AC005193, AF097738, AL049829, Z82246, Z97635, AC005003, AC007540, AC002289, U34879, AL035687, AL078462, AF019413, AL031664, U02507, AC004383, AC005598, AC004466, AC005740, AL121603, AC005255, AC004000, AJ003147, AP000558, AC006965, AC007298, AL049635, L78810, AC007159, AP000049, AL049691, AL049860, AC005162, AC006275, AC004408, AC005736, AC005988, AL022318, AC002073, AL034418, AC004746, AL023655, AC009721, AL008722, AC002472, and U73023.
HCUHE31	689	693311	1 - 340	15 - 354	AA127426, AW023990, AA080866, AL031591, Z97056, AF131217, AC005512, X60653, AC004858, AC016831, AL096703, AF165147, AP001052, AC006088, AC005031, AC004084, AC005281, AC008132, AL031542, AC004999, U80017, AC005920, AF087913, AC005180, AF200465, AC005242, AC005189, AC007686, AC005908, AC005529, AL035422, AC005829, AC002477, AC008018, AC006064, AL050332, AP000493, AC008033, AC000025, AC004972, AB023049, AL035658, AC005695, AL096791, AP000555, AD000090, and AC006023.
HCUHE43	690	754187	1 - 314	15 - 328	AI800436, AA746360, and AI800456.
HCUHE48	691	835917	1 - 397	15 - 411	AC002492.
HCUHE76	692	666599	1 - 319	15 - 333	AL023096.
HCUHF12	693	970685	1 - 543	15 - 557	
HCUHF41	694	878528	1 - 529	15 - 543	AI254913, AA547947, AW302080, AW302087, H82133, AA846952, AI932599, AA569661, AI082791, AL119691, AI253007, AI470239, AA507612, AI751216, AW303096, AW268291, T60681, AW410354, AI382825, AA491681, AI278972, AA569471, AI923333, H90844,

HCUHH14	695	658452	1 - 197	15 - 211	AL039145, AI969436, AI866487, AI445088, AL120269, AA467984, AA630672, AA536016, AA320997, AW027660, AA760808, AC002551, AC003043, AL022721, AL031733, Z93017, AC004084, AC005049, AC005667, Z85987, AL022238, AC005620, AC005081, AC004167, U62631, AC006064, AC006236, AP000247, AC005562, Z93930, AC004797, AC002350, AC003684, AC004686, AC006236, AP000247, AC005562, AL109628, AF111167, AC004520, AC006538, AC005102, U89337, AL021707, AP000208, AL008730, AC007688, AC005251, AL022328, AC004156, AC005071, AP000552, AC005015, AC006211, AC016830, AP000345, AP000295, AC006455, AF001549, AL133355, AL121603, AC005736, AC016025, AP000557, AC004491, AL021917, AC008101, AC006466, AL035458, AC002476, AC005971, AC005972, AC004646, AL133245, U63721, AC003966, AL080241, Z94801, AC005399, AC009516, AC004646, AL133245, AP000031, AP000117, AC005037, AL031588, AC006088, AL021155, AP000338, AF109907, AP000556, Z97054, AC007298, AL050321, AL022395, AC005288, Z93244, AL049830, AP000216, AC004921, AF205588, AC007687, AF196779, AC008132, AC002549, AC004707, AC005257, AC005519, AC002470, AC000118, AC004967, AC007686, AL050307, AP000210, AP000132, AC005837, AC005324, AJ246003, AC004799, AC007011, AC004662, AC002288, AL031668, AC005225, AL031594, AC004991, AC004834, AC005527, AC006126, AB023048, AC006430, AC004263, AL050318, AC002375, AL132712, AC004865, AL109758, AC005952, AL049569, AC007227, AC004088, AC007312, AC004883, AC005778, AC016831, AC005004, AL050341, AC007386, AL022316, AC004453, AC004000, AF129756, AC007285, AC002091, AC006449, AC004760, AC009743, AC002300, AF053356, AL031284, AC005057, Z94044, AL031680, AC006040, AP000550, AC005206, AL035681, AC004963, AC004262, AP000215, AF196970, AC007541, AC007390, Z98752, AL031283, AC008018, AF217403, AL035079, AC006285, AC004253, AL031666, AC005737, U91322, AC004859, AC007676, AC003108, AC004638, AC007845, AF030453, AL022067, AC004858, AC005412, AC002378, AL035587, AC007664, AP000065, AC004841, AL078596, AC012330, AC004933, AC002395, Z84469, AC005067, AC002565, AC005379, AF196971, AC005088, AC009498, AL031589, AL080243, AC002074, AC007193, AL049760, Z85996, AL022153, AF207550, AC005529, AC008372, and 297876.
HCUHI34	696	923803	1 - 503	15 - 517	AI695562.
HCUHI54	697	720378	1 - 311	15 - 325	
HCUHJ12	698	970782	1 - 205	15 - 219	AL031708.
HCUHJ15	699	577304	1 - 418	15 - 432	AC003007, and AC005632.
HCUHJ30	700	966583	1 - 568	15 - 582	
HCUHJ58	701	575796	1 - 387	15 - 401	
HCUHM44	702	615198	1 - 95	15 - 109	
HCUHM61	703	576561	1 - 472	15 - 486	

HCUHM94	704	736095	1-250	15-264	AC002302.
HCUHO60	705	576563	1-258	15-272	AP000313, AP000193, AP000050, and AP000117.
HCUHP20	706	669737	1-384	15-398	AA122006, AA122007, AI733856, AI753365, AI254779, AW419262, AL039187, AI017251, AW274078, AA482711, AA584489, AI634187, AI862716, AW193493, AA527209, AA503019, AW117740, AW069227, AW271069, AA610509, AA410788, AW162049, N73060, AA579179, AI929531, AA634837, AA315361, AA574442, AI250552, AA742815, AI284543, AI457313, AI912401, AI040051, AI079901, H30475, AA483606, AL079734, AI254770, AA287570, AI251284, AI251034, AI251203, AI223626, AI249853, AA652868, AA570740, AA613627, H47736, T50676, AW029038, AI679413, AI380617, AI569086, AI004591, AI469599, AA856961, AA582554, AA228778, AW167154, AI821044, AA255853, AA904275, AL120343, AW067788, AA513846, AI079423, AI475611, AA904211, AI962050, AW068007, AI885572, AI908093, AI623805, AW302048, AI564209, AI338426, AI365988, AI687206, AI653886, AI053978, AI884522, AI339850, AI570261, AA019973, AI270476, AA558366, AA568204, AA013168, AI276298, AA569706, AW406755, AW068008, AI358229, AW166815, AW004884, AI866580, AI732120, AW089950, AC000353, AF024534, AC007666, AC005086, U91321, AC005291, AC005678, AC002126, Z82203, Z95152, AC006211, AP000510, AC004895, AC005071, AB023048, AC004417, AC005412, AC005531, AC002070, AC004099, AL034351, AC005102, AL117340, AL035450, AC006312, U63721, AC006511, AC007193, AC005411, I34294, AC006314, AC007199, AC005484, AL109627, AB003151, AL031680, AC004797, AF109907, AF111168, AC007395, Z84480, AC009247, AC007686, AL139054, AC005777, U82828, AL023803, AC005837, AF196969, AC006084, AC005800, AC005225, M87914, AP000556, AP000557, AC005722, AC004253, AC005971, AC005274, AF085946, AC006088, AL049830, AL035658, Z97054, Z85986, AP000289, Z84466, A39972, AC005520, AP000042, AP000110, AC005736, AC004999, AC002312, AC005089, AL031281, AC005237, AL031282, AL109865, AP000688, AL034418, AL049749, AC003047, AC005081, AL121603, Z98946, Z84487, AP000501, AL121652, AL021546, AC004477, AC004491, AC004953, U95739, AL049843, AC004890, AC002519, AF015160, AC000087, AL096791, AL033392, AC003111, AL035458, AF134726, AL035587, AC004517, AC004973, S75201, AC006947, AC007225, AC005015, AF045555, AC006538, AC004686, AL021391, AL049874, AL022165, AC002310, L78810, AC005220, AF196779, AC007551, AC005075, AC004263, AL035682, AP000694, Z98048, Z94801, AC012627, AC006597, AL035415, AC005859, AC005696, AB001523, AC004812, AC005300, AC004985, AC004841, AJ003147, AD000813, AC007065, AP000037, AC002997, AC004804, Z85987, AP001053, AC006581, AC007785, AP000211, AP000133, AC005037, AC005829, AC006121, AC016831, AC007845, AC006006, AC002563, AP000113, AP000045, AC003950, AL031685, AL034168, AL034420, AL049776, AC008545, AF165926, AC004884, AC005057, AF092858, Z77249, AC007226, AC004882, AC005529, AL133448, U96629, AC002565, Z98304, AC003043, AC004000, AC004234, Z83845, AP000088, AC005363,

ID	SEQ	Clone	Range 1	Range 2	Accession Numbers
HCUHQ13	707	575803	1 - 352	15 - 366	AL133163, AL035422, AC002985, AC007371, AC121754, AC005940, AC006530, AC005209, AC005088, AL080242, AF001550, AC003678, AC004032, AL023577, AC004760, AL121754, AC005940, AC006530, AC005209, AL034451, AF075098, AP000692, AP000121, AC005318, AC007637, AL109952, AP000503, AL049766, AL009181, AC007277, AC005578, AF010238, AC004500, AL021154, AC007537, AF037338, L78833, AC018633, AC005049, AC007792, AC006449, AL049569, AF061258, AC006125, AF176815, Z99943, AL035400, AC005215, AL008582, AC003108, AC006285, AC004816, AP000555, AC005280, AL031664, AF129756, AL078477, AC005622, AC002470, AC002416, AL035703, AL031005, AC004560, AC002347, U07561, and AC006578.
HCUHQ33	708	575800	1 - 341	15 - 355	AA460896, W72144, AA210943, N27422, AA496897, AL035413, and AL035249.
HCUHQ37	709	850010	1 - 386	15 - 400	AI281622, T95073, H52431, AC006077, AC005412, AC005911, AL033392, AC005736, AL031291, AC005529, AL109963, AC005049, AC005071, AC005089, AC005899, AC006111, AC005520, AC004491, AL133245, U91326, AC005015, U91323, AL023807, AC006261, AC006487, AC005295, AC008372, AC009247, AC005874, AF134471, Z93244, Z93930, AC003108, AC004938, AC002404, AC004882, AC005081, AC006312, AC003070, AP000514, AL096701, AC005255, AL049776, AP000692, AL020997, AF165926, AC005544, AC005332, AC007537, U95742, AC005399, AL096678, AL049795, AL022318, AC007205, AF196971, AC005225, AF124523, AC004814, AC006449, AC007263, AC009516, AC005088, AL109827, AC004139, AC004098, AC002429, AL049869, AC005722, AC002544, AC005527, AC006538, AC004922, AF118808, AL031311, AL035422, AL022323, L78810, AC007055, AP000952, AC007993, AL109627, AC005280, AC005881, AP000045, AP000113, AC005921, AL135744, AP000556, AP000502, AC004876, AC003109, AC005932, Z99716, AD000092, AC007226, AL031447, AC005480, AF111168, AC005694, AC007216, AC004893, AC002565, AL139054, AL031587, AP000512, AC002310, AC004596, U85195, AF134726, AP000557, L47334, AC005207, AC000353, AC007193, AC002550, and T97461.
HCUHQ74	710	765638	1 - 341	15 - 355	AW020154, AW245057, AW023511, AA365318, AI648433, W63553, AA643451, AA659200, N62666, AA559166, AA171892, AI086039, AA584756, AW029444, AA633039, H43183, AI049504, AA643441, AI628245, AA330380, AI890753, AI635819, AA230155, AW130427, AI733748, AA278496, AI732430, AI049986, AA126763, AA126811, R63003, AL134330, AA993198, AI753365, AI922850, AC005701, AC005777, AC004242, AL031668, AP000113, AC003982, AL022336, AC006480, AL022324, Z83843, AC007057, AL022302, AC004386, AC007308, AC005932, Z97183, AC004382, AP000512, AF037438, AC005295, U91326, AL008639, AC002470, AL121825, AL049759, AC007192, AB023051, Z82194, AL049569, AC016027, AL020993, AP001046, AC006165, AL031276, AC005756, AC016830, Z97054, AP000354, AL022329, AC006441, U18671, AC007136, U37761, AC005874, AF134471, L34079, AF129756, AC005488, AL109801, AC006487, AC005081, Z99716, AE000660, AC006077, AC004467, AP000349, Z98941, AP000303, AC005412, AL031311, AC005529, AC002477,

HCUHS19	711	566809	1 - 280	15 - 294	U91325, AL121658, AL034430, AL049776, AL132712, Z98752, AC000052, AL096701, AC008018, AP000114, AP000046, AP000010, AJ000742, AC007792, AC003029, AF207550, AC004158, AC004263, AC004999, AC000087, AL008637, Z49866, L78833, AP000501, AC004019, AL139054, AL035079, L04193, AC007225, AC004975, AL020995, AC000120, AC007707, AC002400, AF196779, AC002350, AC005332, AP000500, AL121754, AC007263, AL022328, AC007421, AC005046, AC004686, AL049646, AC004638, M87903, AL133448, AP000513, AP000044, AP000045, AL031733, AL008635, AC004750, U91323, AC006961, AL021578, AL009181, AL109967, AC007041, AC004983, AL049830, AL034582, AF165926, AL022722, AP000694, AC007050, AC002070, AC002115, AL132987, U96629, AL023553, AL133245, AC004562, AL035400, AC005261, AC006006, AC007546, AC005544, AC004797, U91321, AL031670, AC003101, AC005261, AC006006, AC007546, AP000557, AL078581, AC005527, AC005722, AC005837, AC004887, AC002117, AP000556, AB023048, AC005821, AL049795, AP000511, AP000151, AC007462, AP000553, AC002045, AC006597, AF109907, AL022316, AC006001, AC005581, AC004996, AC006966, U95742, AL080243, AC005231, AC000025, AC005562, AC006509, AC004922, AC007055, U85195, and AC007216.
HCUHS60	712	850009	1 - 272	15 - 286	R44293, R40978, H24231, AI678013, T65857, F01849, AW177822, AW177816, AC006537, AC000353, AC006512, and U73166.
HCUHT21	713	577265	1 - 122	15 - 136	AI207507.
HCUHT56	714	722649	1 - 447	15 - 461	AA459655, AC006125, AF196779, AC002425, AC005529, AP000511, AC005778, U96629, AL049576, AC005924, AC007688, AC009294, AL022726, AC005726, AC006538, AC004084, AL008730, AL021155, Z98036, U93305, AC004685, and Z99716.
HCUHU68	715	577795	1 - 212	15 - 226	Z98883.
HCUHW54	716	730716	1 - 100	15 - 114	
HCUHW59	717	739329	1 - 164	15 - 178	AW275339, and AI879909.
HCUHY49	718	577887	1 - 288	15 - 302	
HCUIA48	719	721719	1 - 470	15 - 484	U91320.
HCUIJ35	720	713818	1 - 490	15 - 504	AC005200.
HCUIL80	721	577172	1 - 100	15 - 114	
HCUIM51	722	725724	1 - 441	15 - 455	AI821342, T65972, T62955, AL039515, AI820553, AW272389, AA135761, AI969090, AA197089, AI581006, AA955031, AA558488, AI889177, AA340581, AI250333, AI310787, AI310670, AI349130, AI857834, AI174827, AA525156, AA525331, AA507623, AW366198, AW008217, AI150934, AI590442, AA493546, AA809104, AI821945, AI733856, AW192518, N35135, AA598605, AI090377, AW069227, AI049504, AA714389, AI309943, AI754037, AC004893, AC004859, AC003689, AL109798, AC005484, AL096791, Z85986, AC005725, AC006539, AC005529, AC005913, AP000501, AC006241, AC005225, AL022322, AC005828,

HCUINI8	723	666537	1 - 273	15 - 287	AL135960, AJ131016, AP000503, AL031277, AC005046, AC005832, AC004695, AC007225, AP000356, AC004707, AP000085, U95740, AL034549, AL049569, AC002314, U91327, AF134726, AL049872, AC004890, AP000359, AC005632, AC003103, AL121653, AC002395, AC005768, AL033397, AC010205, AC002312, AL021407, Z84484, AC000379, AL133353, AC005071, AC009498, AC006450, AL034420, AC006251, Z83826, AL122020, AP000692, AC002300, AC005377, AC005033, AC004884, AC007376, AL035400, AC007226, AF001975, AL117338, AF064863, AL031283, AL049694, AC007327, AL031985, AF123462, AL009172, AC005839, U91323, AC004953, AF117829, AL133247, AP000038, AP000106, Z98884, AL034379, AC005538, AC004079, AP000350, AC006544, AC009247, AL031733, AB023048, AP000049, AC004099, AL031427, AC004990, AP000311, AL009179, AC004996, AC005231, AC004386, AC000052, AC004019, AP000347, AC004882, AC006946, AL022328, AC005048, U95742, AC007100, AL034371, AC000025, AC004263, U82828, AC003065, AC007216, AL121754, AC005011, AC004381, AP000337, AC006063, AL133448, AC006055, AL031431, AL109952, AL109623, AC009330, AL023575, AL035691, AL020997, AP000047, AC005015, AC005412, AC006530, U96629, AL049757, AF109907, AF111169, AC004087, AL132712, AL132777, AL035420, AL135745, AL031005, X98745, AF001548, AP000355, AL078463, Z74617, AC006487, AL031311, AL133485, AC004984, AL022163, AF069291, AC005369, AC005288, AL024498, AC007240, Z82215, AC005154, AP000151, AC008033, AC002470, AC004106, AC004084, AL049869, AC007736, AC004230, AC006121, AC004967, AC002369, AC007671, AC004975, AL031281, AL031670, AL035681, AC004134, AC006538, AC006064, AC004584, AC007227, AP000115, AC006001, AC003086, AC006443, AC002418, Z83840, AC005527, AL121655, AC007066, AC006430, AC004815, AL022316, AC002073, AL021155, AC004966, AC005808, AC003006, AC004638, AL109628, AC002991, AC002326, Z99128, AL080243, AP000514, AC003043, AC004531, AC009542, AC006130, AC000353, AL035249, AC004383, AC004662, AC003043, AC007934, AC002039, AC004041, AC005202, Z97632, AC002543, AP000505, AF053356, AL031291, AC005736, AL031680, L44140, AC007055, AC004897, AC005899, AL133163, AL022721, AC005480, AC005747, Z83843, AB020864, and AC005823.
HCUTO82	724	883812	1 - 323	15 - 337	
HCVAC18	725	889480	1 - 219	15 - 233	
HCWAA20	726	669991	1 - 108	15 - 122	AW070506.
HCWAB01	727	921689	1 - 320	15 - 334	
HCWAB44	728	669714	1 - 313	15 - 327	AA584207, AL031680, AC007688, AP000692, AC004910, AC005088, AC004491, AB003151, AC005071, AC005015, AL022326, AC005409, AC005081, AL020995, AP000688, AC006468, AC005768, AC009247, AL109839, AC012384, AF053356, AC005179, AP000167, AP000052, and AL031848.
HCWAB50	729	724684	1 - 139	15 - 153	

HCWAB56	730	507283	1 - 311	15 - 325	
HCWAB67	731	529658	1 - 112	15 - 126	
HCWAB80	732	959937	1 - 415	15 - 429	AA654766, AC005874, AF134471, AC005211, AC008044, AF030876, U52112, Z97054, and AF031078.
HCWAB92	733	523447	1 - 238	15 - 252	
HCWAC68	734	529653	1 - 321	15 - 335	
HCWAE16	735	660280	1 - 156	15 - 170	
HCWAE50	736	655130	1 - 211	15 - 225	
HCWAF02	737	920993	1 - 711	15 - 725	
HCWAF45	738	723452	1 - 322	15 - 336	AI271873, AA834816, AI053939, AW382603, AW021847, H72269, AA079260, R81017, R62710, T58562, AI003068, AA507623, AA525818, AA533660, AA515048, AI826857, AC003957, Z93023, AC005837, AC007182, AC005245, AC005933, AC004771, AC005914, AC005695, AC005102, AC003685, AP000497, AC004031, AC004132, AC003678, AL008582, AL109952, L78833, AL021546, AC005014, AL049776, AP000694, AL096701, AP000279, AL008722, AP000038, AP000106, AL078644, AC006484, AC007542, AC005899, AC003003, AC006581, AC007066, AC004890, AL096678, AF196779, AC006417, AC007192, AP000502, AL050333, AC007057, AL049872, AC005399, AL021878, AL035249, AL021878, AP000116, AP000103, Z97056, AC003041, and AC002476.
HCWAF60	739	523354	1 - 301	15 - 315	R91062.
HCWAF80	740	529498	1 - 286	15 - 300	F02374.
HCWAG20	741	839796	1 - 299	15 - 313	
HCWAG70	742	529357	1 - 352	15 - 366	
HCWAH52	743	574929	1 - 235	15 - 249	AA812265.
HCWAI93	744	523536	1 - 330	15 - 344	AW134548, AA649218, AF022655, and AF049105.
HCWAJ55	745	529361	1 - 68	15 - 82	
HCWAJ58	746	740987	1 - 351	15 - 365	M77919, and AL109984.
HCWAKS1	747	751640	1 - 297	15 - 311	AA837325, AI679390, AI679898, AA808982, AA971196, AA112924, AA856815, AA207147, AW408063, AI298079, Z97630, AC005921, AC006597, AP000030, AC004882, AC002477, AC005529, AP000163, AL121658, AC031602, AC004531, AC005071, AC004856, AC009516, S42653, AF109907, AB026898, AC006898, U52112, Z86090, U52112, AL031005, AL031767, AP000501, AC007066, Z98946, AL049697, U95742, Z86090, U52112, AL034420, AC005846, AC005231, AC007216, Z81369, AC006581, AC005089, AC002527, AL034420, AC005696, Z84469, AC005768, U95741, AL033397, AL109628, AL109865, AB023054, AC005696, Z84469, AC005488, AC008124, AC006509, Z97876, AL031733, AC004770, AL079295, AL133238, AC007055, AC005663, AC006445, AC004491, AC004019, U95740, AC005971, AC008372, AC007055, AC004526, AC004851, AL022238, AC004801, AJ246003, AL022327,

Clone	No.				Accession Numbers
HCWAK80	748	702435	1 - 470	15 - 484	AL109627, AC004854, AC005940, AC006041, AC007687, AC004808, AL035695, AC004841, Z99496, AC016027, AC005519, AL022336, AL022165, AC005911, AL035659, Z97181, AL030996, AF111168, AC004796, AL031685, Z49236, AL109801, AC006965, AC007743, AL035070, AC005730, AC004520, AC005914, AL049694, AC005328, AP000495, AC004693, AL031003, AL049759, U85195, U95739, AC004797, AP000304, AP000047, AP000115, AL049710, AF165926, AC004813, AL021578, AC006277, and AC005821.
HCWAL14	749	861958	1 - 332	15 - 346	
HCWAL22	750	579046	1 - 468	15 - 482	AC005327.
HCWAL39	751	861893	1 - 330	15 - 344	U95742, AC007216, and AC007226.
HCWAM08	752	960170	1 - 95	15 - 109	
HCWAM39	753	529349	1 - 170	15 - 184	
HCWAM49	754	849980	1 - 495	15 - 509	
HCWAN17	755	966646	1 - 684	15 - 698	AA630456, H38769, AI581223, AI003797, AL037777, H65697, AW161459, AW161879, AI191343, AA936548, AI473671, T90477, AA743968, AA299422, AA361354, AI570380, AI733856, AL047645, T94072, AA715891, AI287766, AA292719, H24953, AI054414, AW007424, AA501781, AA526424, AA577824, AA456149, AI684335, AA811150, AA654849, AA669320, AA493657, AA380781, AI866580, AA640495, AI049630, N87333, F31203, H47208, AA064978, AA678976, AA745628, AI357109, AW084100, AI308598, AW029515, AI683116, AA133013, AA714338, AA584525, AI473995, H94979, AI247101, AW022796, AF092853, AF092850, AC006160, AC005412, AC004929, AC005872, AL008636, AP000353, Z75407, AF092851, AF195658, AC002040, AC006262, Z98200, AL023513, X58139, Z54246, AC006480, AF191069, AF007563, AL121754, AC005620, AL096766, AC006530, AP000144, AC004773, AP001067, U85195, AC004990, AL031005, AC005480, AE000658, AP000313, AL034418, AC004475, AC005829, AP000194, AC006323, AL096701, AP000555, AL049569, Z84469, AL049780, AP000116, AP000050, AF196969, Z99297, AC006449, AC006050, AP000229, AP000151, AP000043, AP000117, AC005696, AC006021, AP000049, AC004851, AL034553, AC002316, AL022158, AL109952, AC005197, AP000311, AC002390, AL008718, AC007191, AL030996, AF132033, AP001068, AC003048, AC005233, AL034548, AL049779, AL035079, AC004651, AC003663, AF130343, AC002504, Z93024, AL031597, AL122023, AL121748, AL023799, AC000066, AC005231, AL035691, AL117258, AJ251973, L22968, AC005544, AC004760, U52112, AL024498, Z98304, AP000010, Z85999, AL109967, AC005803, AC006251, AC004262, AB014088, AB033024, AC005037, AC002314, AC007488, D89927, AF106656, AC005178, U63630, AC005192, AL022326, AB000876, L34079, AP000506, AC002045, AB000882, AB020868, AC006241, AC003670, Z98747, AF143316, AC007204, U96629, AC007263, AC000066, AJ011930, AL121577, AL021939, AC005280, AC007193, AP000115, AC002375, U52111, AL049835, AC006538, AC004492, AC005820, AC004923, U02047, AC003992,

HCWANS5	756	928116	1 - 375	15 - 389	AC004953, Z98751, AC006088, AC005690, AL022238, AL022399, AC004819, AL021451, AC005625, AP000493, Z94161, AL121825, AC002468, AC004815, AC006130, AC004703, AL023803, S65785, AL035703, AL133035, AL021453, AL109798, AL023584, AC006529, AC006576, AL031295, AL009181, AL096801, AC005004, Z82212, AC004202, AC002425, D64108, M19508, AB009668, AJ012008, AL008716, AC020663, Z99127, AP000314, AL031767, AP000502, AC007011, AL049843, Z93244, AC004638, AC008123, AP000557, AC005006, U91326, AL031277, AC006359, AC002039, AC007270, AC005196, AL078581, AC005049, U47924, AC004539, AL035664, Z73963, M90058, AC005952, X96421, AP000694, AC002306, AL030998, AC004876, Z97353, AF134726, AC004841, AC002091, and AL035462.
HCWAP63	757	523259	1 - 409	15 - 423	AL022067.
HCWAP66	758	889439	1 - 303	15 - 317	AI216990, AI076729, AC007381, and AF109907.
HCWAR05	759	932623	1 - 397	15 - 411	
HCWAR59	760	916461	1 - 687	15 - 701	
HCWAR63	761	523255	1 - 392	15 - 406	
HCWAR76	762	529652	1 - 488	15 - 502	
HCWAR84	763	529241	1 - 199	15 - 213	AC005820.
HCWAT16	764	523125	1 - 326	15 - 340	
HCWAT59	765	529236	1 - 339	15 - 353	
HCWAU26	766	849902	1 - 263	15 - 277	
HCWAU89	767	589836	1 - 333	15 - 347	
HCWAV75	768	849976	1 - 396	15 - 410	
HCWAY41	769	542388	1 - 336	15 - 350	
HCWAZ16	770	529227	1 - 328	15 - 342	
HCWAZ43	771	849892	1 - 496	15 - 510	
HCWAZ66	772	523243	1 - 434	15 - 448	
HCWAZ73	773	523299	1 - 284	15 - 298	AI720968.
HCWA291	774	529226	1 - 443	15 - 457	
HCWBA18	775	529224	1 - 179	15 - 193	
HCWBA21	776	937631	1 - 394	15 - 408	T59362, and T59390.
HCWBA49	777	723359	1 - 327	15 - 341	AI695904, AI652833, and AC005576.
HCWBA50	778	835532	1 - 326	15 - 340	
HCWBA55	779	529222	1 - 296	15 - 310	
HCWBA64	780	715579	1 - 265	15 - 279	
HCWBB27	781	967045	1 - 392	15 - 406	AI709174, AI932902, AA078084, AW194802, H54292, AA085863, AI889612, AI623423, AW236342, AI268812, AA573189, AA252763, AI824562, AA526779, AA669816.

HCWBB63	782	667283	1 - 332	15 - 346	AA846935, AW190760, AA917683, AI282336, AI889440, AL042756, AI537030, AA176605, AI291124, AI312149, AA515224, AA179706, AI291268, AW270258, AA604514, AW008212, AP000689, AC005808, AC007066, AC006360, AC005304, AC002400, AC005480, AL078581, AL109654, Z84721, AC007066, AC005682, AC005317, AC002312, Z84487, AC007537, AC005206, AC005358, AL136295, AF053356, AC004087, AC002316, AC002558, AC002319, AC006241, AC003663, AC005011, AC005667, AC002310, AL049745, Z93930, AC007055, AC006040, AC005412, AC005015, AC005399, AC005519, AL021939, AC007934, AC006211, AL031848, AF003626, U91326, AC012384, AL096763, AL117354, AC002302, AF207550, AC004263, AC005041, AC003982, AC007151, AL031666, AC002072, AL031662, AC000052, AL008582, AL049759, AL121655, AC005324, AC004966, AL121603, AP000359, AC007263, AC007666, Z83826, AL035422, AC002350, AC006449, AC007536, AF111167, AC002544, AL031670, AC005081, AP000344, AC005516, AC003664, AC005756, AL008723, Z97630, AC007216, AC004076, AL022320, AP000552, AC006953, AC006160, AC009181, AP000350, AC005379, AP000355, AC007707, AC002984, AC004254, AC006430, AJ246003, AL022336, U85195, AC005069, AL049869, U07563, AL133448, AL031587, AC005632, AC006450, AC007371, AC007050, AC005102, AL031584, AC004821, AL022312, AC005696, AL020996, U95740, AC005899, AC005562, AL022318, AC005874, AF134471, AL035681, AL021578, AC004972, AE000658, Z99716, AC004983, AC004752, AL022326, AC004019, AC002425, AL109627, AC009516, AF109907, AL021394, AC006571, AC007363, AL033521, AD000813, AC004540, L77570, AC004929, AC004000, AC005291, AC004383, AP001038, AC004963, AC004253, AC002565, AC004106, Z98051, AC006088, AC006088, AC005844, Z94056, AC005104, AF001549, AL049776, Z93023, AL035405, AL031589, AF064861, Z83840, AL050321, AL080243, AC005747, Z84480, AC002430, AC005839, AL008635, AC004771, AL031281, AC004894, AB023049, U80017, AL031393, AL049712, AL121934, AC006539, AC018633, AC005878, AC004841, AC003950, AL109628, AP000512, AF111168, AC004560, AL121825, and AC007227.
HCWBC16	783	529350	1 - 208	15 - 222	
HCWBC28	784	584778	1 - 341	15 - 355	
HCWBC32	785	574909	1 - 361	15 - 375	
HCWBC54	786	573188	1 - 331	15 - 345	AF187320.
HCWBC61	787	728666	1 - 313	15 - 327	R91175, AA347930, AA347927, AI431688, AA078849, AI690686, AA328169, R70333, AW238345, AA078869, F23239, AA364224, AA177120, F04987, R40056, AA843450, AI160117, AW088984, D29495, AA449523, H79261, AI561255, AA310868, AW272758, AI185122, N31557, R36315, AI679442, AI679952, AA449088, T59509, AA704643, H78230, R77905, R96959, AW102849, AA347101, AA985357, AA581463, AA810283, AA338486, AI610376, F33566,

HCWBC69	788	849971	1 - 290	15 - 304	AA363989, N29578, AA809029, AA503258, AA605032, T93015, H96730, AA828042, AI633007, AA501809, R50197, H47539, AA603445, AL044858, AP000493, AL078624, AC020663, AL135744, AL049780, AC009405, AL121595, AC005225, AC005829, AC004975, AC004526, AC006530, AC016830, AL031447, AC002985, AP000555, AC004919, AC004685, AC004972, AC005231, AC002395, AL049653, AL031587, AF111170, AC007050, AC005488, AF165926, AL022326, AC003982, AL035415, AL031587, AL035699, AF134726, AL031577, U95742, AC006285, AP000556, AP000557, U91321, Z98172, AP000567, AC003101, AC005544, AC016027, AC006441, AC007216, AC005747, AC005037, AL117498, AC004821, AC000026, AL035458, AL021918, AC004167, AC005821, AC005291, AC003002, AP000502, AL031665, AC008372, AC011311, AC007537, AL031767, AL049869, AC005355, AC006014, AC004185, AL021155, Z75407, AF124523, AC005081, AF111168, AC002070, AF048729, AC004678, AL034400, AC006011, AC002059, AC005245, AC007308, AD000092, AL031848, AC004150, AP000159, AC005772, AC007546, AJ246003, AC005740, AC002301, AC000085, AC005332, AC005015, AC003071, AC007676, AC004886, AC005324, L17418, AC004382, L44140, AL022329, AL133245, AL034420, AC005839, AC000052, AC002425, AC004596, AL096701, AC002303, AC006458, Z81308, Z95331, AL133243, AC006080, Z49236, Z99754, AC004825, AL031255, AC005500, AP000509, AC007536, AL132992, AF001549, AC004884, AC004491, Z93021, AC009275, AL109865, AC005874, AF134471, AC005776, D84394, AL049776, AC005326, AC005516, AL022315, AC007160, AB011134, AC006238, AL049811, AL035696, Z97634, AL118510, AC008394, AC006112, Z98051, AC007064, AC004963, Z75746, AC004262, AF205588, AC004890, AF196970, AL035587, AC004662, AL049830, Z99716, AL031295, AJ009610, AC002996, AC007199, U82668, U80017, Z75889, AC006487, AL034549, AL117351, AC006047, AC004659, AC002984, AC004777, AD001527, AC004019, AP001060, AL049825, AC005924, AL034451, AF196971, AC006540, AP001054, AC007066, and AC009516.
HCWBC71	789	784052	1 - 69	15 - 83	AA827967, and Z93783.
HCWBC81	790	849974	1 - 248	15 - 262	
HCWBD54	791	706513	1 - 238	15 - 252	
HCWBE25	792	529216	1 - 127	15 - 141	AF150169, and AF111167.
HCWBE37	793	542403	1 - 307	15 - 321	Z54343, and AL109760.
HCWBE49	794	932196	1 - 406	15 - 420	
HCWBE51	795	782317	1 - 418	15 - 432	
HCWBE58	796	773587	1 - 161	15 - 175	
HCWBE69	797	723717	1 - 435	15 - 449	W45011, AI191804, AA773406, AA361071, AW402184, AA853510, AA314671, AW401537, AA345752, AA378756, AA346880, AA367230, AW405965, T80869, T72713, N23610, R19889, R94160, N55688, Z43415, R18379, W21269, AW403145, W19964, AA325636, AW401713, N57425, AA313360, N57316, W46199, AA670088, AA313277, AW160492, AW247594,

HCWBE71	798	688011	1 - 393	15 - 407	AL035943, AW245750, AL035940, AW247213, AL036958, T08768, AA340025, AA295206, W22826, W22385, AW363955, W40348, AW402954, AA377322, RI2313, W17327, R58256, N87501, AW366672, AI034239, AA204793, AI033895, D31767, and AF085348.
HCWBE76	799	968515	1 - 158	15 - 172	AC006465.
HCWBG06	800	954670	1 - 60	15 - 74	AW450440, AW444820, and AW301590.
HCWBG30	801	920530	1 - 289	15 - 303	AI440268, AA523203, AA523204, AI114755, AI160875, AA506952, AW019964, AW265274, AA368329, AI609972, AI753536, AI635677, AI690335, AA807704, AL047480, H40478, AW237905, AA551204, AA837771, AW029626, AI749306, AI888050, AL048002, AA351868, AI982994, AW341955, AI114645, AW263867, AL041895, AI453160, AI564294, AA831997, AA632765, AI471467, H87756, AA629939, AI348780, H43183, AI799421, N45056, AL042373, AW169469, AA320521, AA653291, AI378437, AL118998, AI750692, AA635433, AA683069, AA604797, AI800345, AA642289, AA207147, AI345394, AW023376, AA788904, W27084, N22501, AI671077, AI929298, AI929825, H15241, AA670108, AA741301, AW007424, AA225100, AW157180, AA827383, AI537480, W96522, AI915068, AI114543, AW197926, AC004686, AC004242, AL031662, AC006312, AC005355, AC005189, AC005081, AL021917, AC005338, AC005736, AB023051, AP000512, Z83826, AP000501, AC007510, Z84481, AC007363, Z83838, AC007488, AC007225, AL079295, AL139054, U96629, AP000125, AC006549, AC005821, Z93023, AL031286, AL117694, Z82244, L13176, L77570, AF024534, AP000252, AP000098, AF064866, AC005969, AC005899, AC007285, AC005212, AP000515, AL133289, Z97832, AP000212, AP000134, AC002395, AC005772, AC005231, AC005183, AC007151, AC012384, AC002302, AC005911, AP000031, AF031078, AL136297, AC005940, AP000558, AC004253, AF029308, Z98036, AC005086, Z85996, AC004596, AF030876, Z98941, AC007688, AC005952, AL117391, AC005778, AC002347, AI246003, AC006070, AC005412, Z79997, AP001053, AL035405, AL035587, AC005972, AC004030, AC007387, Z97352, AL022336, AC004913, Z97053, AL078611, AC005902, AL049872, AC004531, AC004973, AC004813, AC005670, AL109984, U29953, Z97184, AL031284, AC002563, AP000014, AP000692, AF113694, AL117344, AC005839, L78810, Z98743, AC004779, AL031686, U55184, AL109628, AP000172, U62631, AF050154, AC012085, AP000057, AP000355, AC007617, AC007226, AL031311, AC006211, AL049692, AL008718, AC002400, AC005271, AP000502, AC005529, AC005358, AC002527, Z81369, Z95115, AC007025, AC007455, AC005632, AC002425, AF111167, AC002350, AC006120, AL031985, Z98256, U91318, AL049631, AC000094, Z84484, AL022318, Z99716, AF053356, U43572, AC004912, AC007455, AC006111, AL121652, AL035681, AC000097, AL034451, AP000553, AL049845, AL009172, AC005181, AC006547, AC005218, AL035398, AC004611, AC005565, AL021391, AL022238, AC020663, AL035685, Z84483, AC004999, AC004967, AC002984, AF129756, AC003070, AL031123, AB014085, AC004187, AL031282, AC006571, AC003972, Z83844, AL050348, AL121603, AC007041,

		676588	1 - 540	15 - 554
HCWBG40	802			AC002565, Y18000, AL009175, AC005049, AL031432, AL031003, AC009516, AL031276, AL096761, AC005695, AC004662, AD000092, AL049588, AC002045, AC002082, AL035610, AL023803, U80017, AC007731, AC007358, AL096775, AL096774, AC000118, Z98304, AC005031, AL109623, AL050341, AC005500, Z99943, AC004876, M84472, AL021546, AL133245, AC004834, AF106656, AL031846, AF106656, AL031846, AC004149, AL022719, AC003957, AL034553, and AP000331.
				AA046906, AA157876, AA047057, AA017583, AA019793, AI469089, AA661583, AI872229, H62123, AW150209, AI452836, AI521019, AI469485, AI567676, AW243817, N74555, AW117860, AI253347, AAS87835, AI819419, AAS72813, H82594, AA768079, AA640305, AL050318, AW273146, AI570067, AC007421, AC007637, AL096775, AP000512, Z98884, AC002126, AC005529, AC007537, AC000353, AL109758, AC006511, AC007536, Z83844, AF001549, AL050307, AP000501, AC000353, AL109758, AC006511, AC007536, Z83844, AF001549, AL050307, AC004031, AC004491, AC004922, AC003684, Z93017, AF053356, AC002470, AL121603, AC004000, AC004805, AC006449, AC005694, U95742, AC005527, AC005488, AL021391, AB001523, AC007216, AC002544, AP000116, AC005399, AP000555, AC005274, AC012384, AC004686, AC004477, AC005632, AC005484, AC008372, AF134726, AC002039, AC005089, AB023051, AC005519, AC007055, AC006071, AL031295, AJ011930, AC004890, AC005067, AC002044, AC005971, AC004099, AC004659, AC004985, AC005695, AC004913, AP000114, AP000046, AC006487, AC004859, AC004876, AL020995, AC006125, AL031680, AL035072, AC005911, AC006344, AL031311, AL049694, AL031276, AF207550, AC007387, AC002425, AC004647, AL109984, AC005412, AC004878, AL050341, AC005231, AC007226, AL096703, AC004552, AC006241, AC004887, AC002310, AP000065, AC005829, AC007878, U91326, AC006130, AL021878, AC005358, AP000502, AC005913, AC004765, AC003086, AF001550, AC005531, U85195, AC004854, AF196969, AL078581, AP000088, AC006571, AP000133, AP000211, AC004983, AC007376, M63796, AC005037, AC000046, AL049759, AC000038, AE000658, Z98200, AC004019, AL031663, AL136504, AC005744, AC000025, AC005746, AC005015, AL096701, AL049795, AC004520, AL133246, AF196779, Z83822, AC004796, AL035659, AJ246003, AC006581, AC002418, AP000045, AP000113, AC006512, AL031681, AC005779, AL109952, AC004242, Z84469, AC020663, AC004929, AC016025, AL049780, AC005081, AP000302, AC003042, AB022785, AF111168, AC005180, AC006236, AL021918, AC007686, AC006273, AL031594, AC006121, AC005004, AC004386, AL021977, AL034371, AC002350, AL109628, AC006255, AF165926, AL049830, AL031733, AC002477, AF190465, AC004216, Z98742, AL008582, AP001046, AC005666, and AL009181.
HCWBG41	803	839014	1 - 283	15 - 297
HCWBG43	804	689743	1 - 197	15 - 211
				W60516, T39598, AI284640, AA557325, AI358229, AA916039, AW406755, AA513999, AI110770, AA826303, AW074398, AI205126, AAS51509, AW274349, AI625244, AW023672, AW265385, AA483034, AW303196, AW301350, AA720702, F35113, F36273, AI133164,

AI888518, AA559290, AW440810, AL138265, AI334443, AI064864, AW249224, AI802526, AI890928, AA610491, AW172727, AI053816, AI890570, AL036523, AA111909, AA525416, AL040130, AI610920, F19258, AA587604, AA995824, AI435544, AA587256, AI281881, AW272758, AI016000, AW021747, AW023511, AL040913, AA831388, AA340960, AW301818, AI358343, F29989, AI568678, AA177061, AI653905, AW238278, AA601388, AA729264, AI799642, AL040547, AI133262, AL037554, AL079683, AI358571, F34460, AI608626, AA434484, AI287528, AI471481, AL041368, AI955323, AI365988, AL042753, AW023389, AA501784, AI307426, AI962050, AW166815, AA515051, AA654627, AA132450, AL048925, AI251002, AI929531, AW339687, AI679782, AL042420, T90248, AI623696, T08638, AW265294, AA904218, F27027, AA630352, N43757, AI635272, AW249835, AI339850, AI610159, AA828064, AI890923, AW162049, AW168342, AI859251, AL134972, AW361583, AI446464, AI037914, AI567674, AI003743, AW022379, AI904894, AA229785, AI653636, AI049722, AI273185, AI561255, AI917271, AW440836, AA581903, I51997, AF015167, X75335, S75201, M37551, U12580, AC000159, U12582, U14719, U14718, U14717, U14716, U14714, U14715, U12583, U14713, D83989, Z22650, U14711, U14712, AF077058, U14689, AF015158, AF015170, M87918, Z49816, AF015168, AF015169, AC005385, AP001038, AC004955, U14685, U14686, U14687, U14688, U14691, U14699, U14710, U95740, L35531, AC000951, AP000140, AF015166, AC002542, AC006344, A39972, Z98052, D26067, L81759, AP000088, AF134726, AC001530, Z68269, AC005887, AF146367, AL031577, AL031274, AC006128, AP000193, AC006049, U14692, U14702, U14707, AC004913, AF001552, Z81365, AC002377, U73684, AB023056, AL110150, AF165176, AP000311, AL022322, AC005156, Z74696, U02054, AC002492, X01471, I08362, AF090944, AL121603, AF124523, Z69921, K02043, AC004506, AP000117, AC001164, X79699, AC005682, AF036682, AF015160, S75337, AL024474, Z98750, AF015171, AP000954, X04981, AC004494, AL110292, AC004915, U50570, AC006487, U02048, AC005031, AC004866, X88791, I25678, AC008115, AP000513, AC004477, AL050338, AC004785, AC005401, AF126531, AL031720, AL031009, AL080242, AL031005, AL022326, L08835, AL096862, AC005015, AC005755, AL021878, AC007367, AC007055, AL136297, Z98257, AB023049, AF120990, AF196969, AF078904, AP000355, AC012384, AC006285, AF141976, AC005594, Z97183, AC006449, AL035458, AP000459, AL034452, Z73496, U80017, AL034420, AC002314, X74558, AP000958, AP000111, AP000043, AC005585, AP001037, U49740, Z84814, U14700, AC016025, AC004745, Z85997, AL049843, AC004990, AC007637, AC004150, AP001054, AC005356, AC002115, AC006539, AC002072, AC005086, AC003070, Z83819, X06123, AL023494, AC005484, Z98744, AC005911, AC004492, AF019114, AF010317, AL132777, U62317, AC004241, X60653, AC007774, AC004485, AF190465, AC004783, AL035460, Z98941, AL021069, AC004984, AC006063, AC006030, AC005280, AP000365, AC005228, AL031120, AP000349, AC007392, AL110502, Z95113, AC005280, AP000365, AC005228, AL031120, AP000349, AC005754, AC000080, AL049836, and AC004263.

HCWBG77	805	529229	1 - 279	15 - 293	AA528467, AI865264, and AI267855.
HCWBG91	806	789318	1 - 118	15 - 132	AC002316.
HCWBI17	807	954153	1 - 171	15 - 185	
HCWBI24	808	529211	1 - 112	15 - 126	
HCWBI37	809	967717	1 - 335	15 - 349	
HCWBI53	810	934909	1 - 375	15 - 389	
HCWBI77	811	529238	1 - 217	15 - 231	
HCWBI90	812	921653	1 - 342	15 - 356	
HCWBJ02	813	917300	1 - 408	15 - 422	
HCWBJ27	814	784524	1 - 128	15 - 142	
HCWBJ61	815	849967	1 - 320	15 - 334	
HCWBJ66	816	529228	1 - 87	15 - 101	AL022328.
HCWBJ75	817	935579	1 - 470	15 - 484	AI809175, T53160, T53159, AA284460, AA995373, AI355246, AI634377, AI926393, AW089625, AA846923, AW008184, AA226356, AI283938, AI366180, AW272815, R67701, AI357762, AI434653, AA856815, W45274, N66775, AA084504, F35684, AI690379, AW104161, AI697239, AA526643, AI697242, AA558366, AI697235, AA535216, AA484022, AA555232, AA714110, AI473671, AW192419, AI869797, AI961983, AA584756, AI417469, AI859906, AA568314, AI753904, AI568376, AW419389, AA728874, AI927275, AA838161, AI932871, AL041375, AI800426, AI281818, AI431513, AA655037, AA181917, AI817658, AA558404, AA613850, AI678581, AI370170, AW020150, AIS21525, AI689198, AA654464, AIS37368, AI858889, AA582746, AI053398, AA491423, AW303872, H71678, AI687972, AA297961, AW249660, AA290570, AI299442, AA610433, AIS38236, AW265688, AAS81240, F09357, AA601712, AI270647, W72860, AI888298, AI491765, AA642809, AW028950, AAS15048, AW238341, AA115865, F30158, AW019964, T47138, AI926102, AA488687, AI612724, AI476460, AA523695, AA814503, AC005274, AC008072, AC002316, AC003663, AC004139, AC004884, AC012384, AC005288, AL022165, AC005291, AC005082, AC002554, AL008718, AL022162, AP000466, AC002504, AL035587, AC002430, AL035460, AL049776, AC007298, AC005914, Z82203, AC007384, AC005369, AC002404, AL135960, AJ131016, AC003687, AC003046, AC007536, AC002302, AL109827, AC005046, AP000156, AC004448, AP000501, AC007055, AC002378, AC004242, Z93023, AL049539, AC006312, AP000555, AC008040, AL133312, AL109653, AC005393, Z98304, AC005280, AL049780, AL133448, AP000033, AC004263, AC006011, AL049872, AL031055, AL022163, AC006441, U78027, AL133245, Y18000, AL109984, Z84474, AL022398, AL031777, AL035422, AC005624, AL022319, AC004882, AL035405, Z93241, AL031005, AC002477, L43411, AL031293, AL031121, AF178030, AC005058, AC004841, Z98048, Y10196, AL109618, AC004801, AF222686, AJ246003, AC006581, AC007151, AP000014, AC004686, AC005920, AL133275, AL049576, AC003108. AL132718, AC004706. AL022318, AC005529. AL133500, AC005952, Z98044, AC004887.

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AA373861, AI381490, AW128881, AA554659, F01222, AI049701, AA496309, AA888638, AA757869, AI354333, AA661883, AA298192, AA225358, AW080215, AW022897, AW132097, T30864, AL035893, AW277135, AA295874, AA295865, AI866971, AA206594, AI146266, AW249720, AI889426, AW410481, T94592, N24836, AA352521, AC004139, AL031667, AC005880, AC006077, AC004933, AC006463, Z84487, AC005060, AL035079, Z98884, AL023798, AC002425, D63861, AC004500, Z98941, AL021391, U62292, AC005828, AL049779, AC008928, AC005332, AP000065, U63721, AC016027, AF027390, AL035658, AC016830, AC005102, AC004884, AC002310, AC005231, AL031283, AC008101, AP000305, AL031407, AC005523, AL031276, AC005231, AL132712, Z98946, AC002477, AC005972, AC006965, AP000053, AP000168, AL109628, AC005899, AP000047, AP000326, AC005763, AC006509, AC008009, AP000501, AL096808, X14278, AL049643, AP000054, AP000169, U47654, AP000324, AL109801, AC008372, AC009501, AC005755, D87675, AL109627, AP000513, AP000115, AC005877, AC007011, AC005280, Z76735, AC007285, AP000116, AC005375, AB023049, AC006057, AL035685, AC005071, AC005300, AC004985, AC007869, AF064756, AC004738, AC016026, AC005291, U91323, AC002107, AL023553, AC004491, Z99570, Z93241, AC018769, AC006254, AC007172, AC004975, AL035249, Z93017, AC005261, AC006441, AF003529, AC005028, AC004230, AC004973, Z85996, AC005666, AC005295, Z82206,

Name	No.		Range	Range
HCWBJ81	818	849977	1 - 165	15 - 179
HCWBJ86	819	719521	1 - 380	15 - 394
HCWBL38	820	935481	1 - 336	15 - 350

HCWBL41	821	1 - 372	15 - 386	AB015355, AC006079, L78833, Z49236, AL022238, AC009399, AC000394, AC005971, AC005632, AC003007, AC003108, AC002106, AC006211, AC005014, AL132708, AC005998, AC007786, AL031685, AC002492, U78027; Z83838, AP000008, AL023575, AC002554, AC004605, AC004841, AC004851, AL021528, AC006010, AL133163, AC005696, AL050318, AC006501, AL096791, AP000212, AP000134, AL031662, AC007041, AP000512, AL035422, AC005875, AC004913, AC005328, AP000122, AL049692, Z83844, AC005914, AC005015, Z98200, AC006449, AP000359, AL078581, AC002395, and AL135960.
	822	1 - 372	15 - 386	R20206, T82390, T48770, AL039515, W07542, AA757646, N54937, H82873, AA847341, AA525156, AI791408, AI791720, AI049999, U91323, AC007546, AC005354, Z98946, AC004983, Z84474, AC006344, AB001523, AL031311, AC006354, AP001054, U70065, AC005696, AC002492, AC004771, AC003006, Z84480, AC006064, AL035086, AP001052, AC004914, AC007421, AF053356, AC004825, AL031577, AC005089, AL031587, AF007876, AC006512, U91327, Z61071, AC005529, AC005839, AC004797, AC002077, U78027, Z85987, AF165926, AC005288, AC004383, AC006332, AP000133, AP000211, Z86090, AF196972, AC004692, AC004674, AL049776, AL035422, AL049795, AC004883, AL008731, Z97987, AC004967, AC005746, AF023268, AC005372, U45945, M81181, AC004638, Z82190, AC005527, and AL133448.
HCWBM04	822	1 - 329	15 - 343	AC002464, Z85999, AF002223, AP000223, AC004253, AP000102, AP000260, and Z97196.
HCWBM50	823	1 - 347	15 - 361	
HCWBM95	824	1 - 386	15 - 400	
HCWBN06	825	1 - 360	15 - 374	
HCWBO10	826	1 - 331	15 - 345	AC007130.
HCWBO23	827	1 - 165	15 - 179	AC007162, and AC005212.
HCWBO94	828	1 - 361	15 - 375	
HCWBP27	829	1 - 317	15 - 331	AF205588, and AL024498.
HCWBP56	830	1 - 303	15 - 317	AW022796, AA847341, AW023390, AI308529, AI554399, AW029626, AI888050, AL119063, AI307563, AI520925, AI475294, AA358531, AA496941, AA935827, AA687084, AI076729, AA419014, AI002863, AI446574, AI867012, AI571894, AA661554, AI798521, AI571094, AW070901, AI860648, AA084320, AA525156, AA768179, AW129188, AA632355, AI752977, AA218684, AA581317, AI049680, AA446931, AA196994, AI805699, AA834891, AI805373, H05066, AA761454, AA171400, H24331, T52366, AW338376, AI805556, AI890297, AA419107, AW131109, AW190437, AI734076, AI732102, AI732101, H23238, AI734075, AA828840, AA551548, AI445338, AI572680, AA749196, AI124558, T07943, AA772818, AI802268, AA873661, AA484191, AA524846, N55076, AA832108, AI003086, N59248, AA436949, AI343808, AI149177, W27084, AI570067, R79396, AA496042, AI363336, AA428991, AI000314, AI361401, AI174827, AI202777, AI114645, AA385652, AW362702, AI207534, AI668566, AI921744, AA513916, AA420703, AA225566, AA225494, AI446618, AA632556, AI434103,

| HCWBP70 | 831 | 757467 | 1 - 370 | 15 - 384 | AA229030, T47075, AA363957, AI733523, T03613, AA778580, H94598, AI884404, AI049504, AA584360, AA632765, AI961264, AI354377, AL038533, AI471467, AW169469, AA078830, AJ925812, H59797, AI281622, AL137946, AA018258, H64884, H64858, W04260, AA551030, H59856, AA736713, AA469230, AA743995, AA745336, AA364147, H87818, AW007424, AL133448, AL049869, AC005755, AC005377, AC005837, AC005911, AC006163, AF139813, AC005412, AC003108, AC002316, AC005808, AC004228, AB023048, AC006449, AC005543, U82828, AC004081, AC007566, AL031284, AF038458, AL096701, AC005520, AC005225, AL022238, AL035658, AC005280, AL109758, U91323, AF001549, AC004851, AC005787, AC005516, AC007938, AC004884, AC007011, AC004812, AD001502, L78833, AP000510, AC006261, AP000692, AC005046, AL133246, U80017, AC004686, Z84721, AC007388, AC005932, AL022316, AC004067, AC004985, AC005488, AC002331, AC002369, AC005971, AC005772, AC004991, AC007066, AC002350, AC005102, AL034431, AC005031, AC006948, AC005484, AP000511, AC006088, AL023883, AC004938, AC006946, AL031589, AC002465, AC004447, AL117258, AP000355, AC005104, AC004638, AC006064, AL132712, AC005406, AC005553, AC005071, AC004999, AC009509, Z95113, AC007014, AC005181, Z95703, AC010077, AL049745, AC007666, AC005530, AC005089, AL049569, AL079342, AL031311, AL022322, AC004816, AL009179, AL049778, AC000353, AL080243, AC005324, AC007688, U89337, AJ229041, AL031296, AC006062, D87675, AL121603, AL049839, AL133371, AL049694, Z83822, AC007546, AL021453, AL050317, AC007462, AC007314, AC007312, AC005409, AL031282, AC007227, AC005846, AC003025, AC006487, AC007676, AL020997, AC004032, AC005600, AC006441, AL008716, AC004099, AC005399, AF152365, AL031681, AL031291, AC000070, AC003006, AL122020, AC002543, U91326, AC002079, AC002563, AL035458, AL050318, AP000089, AP000141, AC005375, AC007877, AL137100, AC002073, AL023880, Z98950, AC006315, AC003992, AC006512, AL033397, AC005355, AC005529, AC005803, AL021578, AC002044, AC002044, AC006166, AC005730, AL109798, AL031985, AL049757, AC006075, AF165926, AC006509, AC006509, AL135960, AJ131016, AC004968, AC005694, AL132826, AC005533, AC005663, AL035072, Z99716, AC005206, AC006116, AC020663, AC002530, AC005553, AC004491, AF030453, AL049646, AL033521, AC009396, AC003688, AL031666, AC005821, AP000152, AP000065, AC009247, AL035086, AB023051, AC003086, AC002059, AL021394, U91322, AL096791, L44140, U47924, AC006597, AC005667, AL136295, AC007201, AC007632, AC000105, AC005779, AC005088, Z75407, AL049780, AP000035, AF011889, AL139054, AL008635, AL035587, AC004494, AC007055, AC004020, AC008984, AB019441, AC004226, AL031587, AF109907, AC006101, AC005326, AB023049, AC004695, Z97876, AC008012, AC005915, U66059, AC003007, AC006014, AC005666, AP000512, and AC005255. AC004934, AC005668, AC007529, AC003102, AP000142, AP000089, AC005200, AL133243, AL031117, D87675, L35671, AF135187, AC005612, AC004140, AC004966, and AL050307. |

HCWBP74	832	1 - 319	15 - 333	R59942, AC002301, AP000045, AP000113, AC007327, AP000510, Z84469, AC005399, AC004520, AL133163, AL035079, AC006163, AC004032, AB023048, AL031311, AC003030, AC005081, AC006461, AC004938, AC005015, AC003010, and L44140.
HCWBP85	833	1 - 365	15 - 379	AA564671, AC002045, AC002039, AC002544, and U91326.
HCWBQ03	834	1 - 330	15 - 344	
HCWBQ36	835	1 - 324	15 - 338	
HCWBQ70	836	1 - 373	15 - 387	
HCWBQ74	837	1 - 356	15 - 370	AW242031, AW340905, AL039309, AI446336, AA018923, R33091, AA224525, H40324, AA012829, AL042310, AW029251, N30205, AA689351, H56703, AW440368, N41775, AA825185, AI679221, AA827096, AA609826, AI307565, AI271762, AC004814, AL049653, U91326, AC004777, AF047825, AC005231, AC006236, L78810, AC004000, AC007435, AL049569, AC005332, Z85987, AC002996, Z84480, AL133245, AL022336, AC005899, AC005519, AP000501, Z98742, Z97630, AL022163, AC002312, AC005527, Z98941, AC004216, AC002470, AL022313, AC009516, AL080243, AC005031, AC004686, Z85986, AL020993, AP000116, AL031284, AC006057, AC004832, AL031666, AC005180, AP000512, Z97196, AC003101, AL136295, AC005520, AL033392, AC006480, Z98304, AC005015, AC005745, AC006344, AL022721, AC004890, AC002365, AL023575, AL109839, AC009946, AC004019, AL031680, AC003950, D86995, AF207550, AF045555, AC005844, AC006285, AC006530, AC005529, AC006468, AC020663, AC003108, AC005921, AL117344, AC005037, AC007225, AF053356, Z98743, AC005207, AL121652, AJ003147, AP000558, AC007216, AC005086, AD000092, AC004884, AP000117, AC004854, U96629, AC004841, AL021392, AP000050, AC006211, Z86090, U29953, AC005944, AC007666, Z84487, AC007308, AC005300, AC005828, AC005102, Z93241, AP000555, AC005081, AL022316, AC008044, U62292, AL109657, AF196969, AC005412, AC005399, AC002477, AC005512, AC002301, L47234, AL132712, AC005071, AC006111, AC002477, AF111168, AC004491, AC005702, AC002544, AL096701, AC006538, AC007993, AF196971, AL035086, AC004659, AC005695, AQ006965, AC004492, AC005619, Z97183, AF205588, AC005305, AC004659, AL049843, U52112, AC004447, U91321, AC007546, AL109963, AC000134, AC007283, AF003626, AL021154, AL035659, AC005747, AC005225, AC005924, AL139054, AL117330, AC004859, AC005409, AL122020, AC004985, AC003982, AP000556, AL022165, AL049759, AC002375, AP000690, Z83844, Z99755, AP000689, AF015416, U91322, Z99128, Z95114, AL035587, AC005058, AC004878, AL021391, AC006257, AC003098, AL049780, AC005082, AC004099, AC005058, AC002316, AL096791, AL009181, AC007226, AF165926, AC005914, AC003009, AC003041, AC006487, AP000952, AL024474, AC005778, AJ246003, AC002314, AC004638, AL022311, AC002072, AL031007, AL121658, AC005046, AL133371, AC005971, AC003042, AL050308, AC007774, AP000300, U34879, AC004552, Z98752, AC007055, AL034417, AC004887, AL021878, AL050318,

HCWBQ88	838	527694	1-310	15-324	AC004167, and AF196779.
HCWBR06	839	527692	1-424	15-438	AA234213, AL078621, and Y13478.
HCWBR89	840	967726	1-401	15-415	AA912663.
HCWBS66	841	574850	1-120	15-134	
HCWBS67	842	842037	1-370	15-384	AI281474, AI187148, AI050076, D44899, AA446645, AI609972, AA653139, AA584765, AI624067, AA342238, AA526643, AA598738, AA305029, F24745, AA456149, AA568314, AA193205, AI090334, H28545, AI358542, AA302661, AA648605, AA570441, AA482928, T71936, AW083706, AA225630, AA808998, AA383937, AI494417, AW419389, AA847099, AL119010, AA112924, AA020788, F30650, AI283938, AA443727, AA425924, AI354333, AL134278, AW167330, AW051288, AI366555, H25302, H67064, AI620415, AI858889, AA525407, AI636734, N73060, AA664126, AI955873, X69907, AC004893, AP000501, AP000103, AC004106, AL031281, AL035405, AC005089, AL049694, Z99128, Z97056, AP000269, AP000555, AC007435, AC004217, AC008126, AC003041, AC006965, AL035658, AF049895, AF111168, Z82244, AL049830, AF002223, AL031905, S42653, AL035458, AC004985, AL031432, AC007993, AC004526, AL033527, AL022336, AC004843, AL035079, AC004805, AC005755, AL034549, AL139165, AC002565, AF047825, AC005261, AF196969, AC007685, Z95152, AC006966, AL031685, AL079295, Z83309, AL009172, AL031589, AC005913, AC005535, AL031673, AL049872, AL033518, AC005874, AF134471, AC005479, L78810, AC005828, AL078638, AC005924, AC005372, AB023048, AC004659, AC006026, AF207550, AC005901, AE000658, AC004491, AC002477, AC005632, AC007308, Z93017, AL049591, AP000300, AC006121, AL008718, AF134726, AC005933, AL096701, Z81369, AL096766, AP000032, AP000113, AP000045, AC003956, AC007225, Z99716, Z82190, AC005921, L05367, AC007358, AC002073, AL031777, AC006001, AL035659, AC007298, AC008064, AC004148, AL031657, AC002470, AC006023, AC009516, AC004973, AC007216, AL133246, AC005231, AL049569, AL050348, AC005881, AC002994, AC004584, AL031120, AC006487, AC005531, AC007386, AC002314, AC006449, AC005520, AP000040, AC003982, AL022238, Z94056, AC002425, AC005233, AC002045, AL031291, U95743, AC005409, AC004522, AC005082, AC004531, AC004841, AC004821, AC004884, AL031289, D87675, AL008730, AP000355, AC007192, AC005328, AL035530, U85195, AC006344, AC006146, AC006239, AC005914, AL034371, AC020663, AL109801, AC007276, AC006088, AC005740, AC006050, AL080243, AC003071, AL022316, AC005971, AC000353, AC000070, Z94801, AC007327, AC004024, AC007237, AL035071, U91326, AC004983, AC005821, AC010205, AC005696, AC005014, AL133243, AC004223, AL022323, Z83838, AC000159, AL022322, AJ010770, AC006960, AL049776, AL049636, AC005730, AL109984, AL050307, AC006241, AC002350, AC002347, AC006505, AL121934, AC005220, AC002347, AL009181, AL049589, U91318, Z84469, AC006581, AC006509, AC006299, AL024507, L34294, U95741,

HCWBS96	843	954028	1 - 464	15 - 478	Z78021, AC004889, AC007450, AF001548, U80017, AC006538, AC002992, AC012099, AC005295, AF196970, AC004167, AL096791, AC000118, AC005609, AC008039, AC007488, AB023050, AF103804, AP000014, AL049869, Z98885, AL031005, AC005037, AL135744, AC005225, L44140, AL132987, AC002381, Z83819, AC004017, and AP000143.
HCWBT30	844	523249	1 - 340	15 - 354	
HCWBT31	845	720016	1 - 283	15 - 297	AA897291.
HCWBT48	846	527676	1 - 139	15 - 153	
HCWBT86	847	927506	1 - 316	15 - 330	
HCWBU09	848	527562	1 - 279	15 - 293	
HCWBU24	849	861864	1 - 371	15 - 385	
HCWBU49	850	850014	1 - 402	15 - 416	AL118817, AA425283, AI360368, N27737, AI224583, N62478, AI567976, AI446424, AA493464, AI753131, AAS06544, AW085751, AW270287, AA659303, AA330435, AL119123, AI355572, AA595661, AL048969, AI690379, AAS15165, AW169183, AI310670, AI754064, AW409621, AI349130, AA372958, AI038990, AA524604, AW086015, AA489390, AL042731, AA382435, AA662982, AI751698, AL134336, AA631915, AI744890, AI540319, AL044438, AA862218, AL039436, AA630476, AI935827, AA640305, AL042336, R43468, AL044458, AA648942, AA280886, AI014872, H05742, AI439525, AA181705, AW084152, AI174703, AA720594, N73337, AA369494, AAI67178, AF114095, AW275788, AA303588, AD000092, AC002433, AC005081, AC004477, AL031228, AL021391, AL096791, AC005048, AC005516, AC005004, AF129756, Z97056, AP000359, AL035422, AF217403, AC005664, AC006479, Z82208, AL035420, AC005546, AC009336, AC006547, AL133448, Z82244, AC004686, U78027, AL022313, AC007057, AL049872, AC006581, AL021393, AP000505, AC007021, L78810, AC007242, AC002551, AL035413, AL035682, AL139054, AL121769, AC004099, AF195658, AC005301, AC003969, AC007055, AC007686, AL049709, AL035603, AC007093, AC000007, AL031122, AC005828, Z98048, AC004076, AC005726, AC007397, AC004000, AL136295, AC005519, AC002985, AC000075, AL049539, AC004772, AL031587, AP000514, AC007535, U91318, L44140, AP000133, AP000211, U91325, AL078639, AC005670, AP000961, AC006530, AC002126, AC004159, AC004921, Z79488, AC003109, AC007436, AC005907, U47924, AP000140, AL078581, AC004802, AP000280, Z15025, AC005391, AL031281, AC005821, AC012330, Z93017, AC004805, AC004973, AL122020, U91326, Z84466, AF111168, U71148, U91327, AC004998, AL008718, AC004718, AF015416, AC006511, AL078471, AP000107, AP000039, AL133312, AL034395, AP000088, AF015416, AF030876, AC009946, AC005082, AL021308, Z93244, AC005261, Z84497, AC007546, AF030876, AC010077, AL031774, AL031282, AC005751, AC005694, AF196779, AC007993, AL132799, AL024507, U73647, AC004929, AL096763, AC005215, AL050323, AL035494, L78833, AL024507, U73647, AC004929, AP000056, AC004522, AC005089, Y14768, AC003102, AC007785, AP000124, AP0000056, AP000171, AC004522, AC005089, Y14768, AC003102, AC007785,

HCWBU72	851	668350	1 - 540	15 - 554	AL133382, AL031259, AL008710, AC003077, AL121657, AC005011, AL135744, AL035419, AL031680, AC005057, AC005911, AC005412, AF141308, AC005839, AC005793, AL117694, AC006468, AL021937, AC004903, AP000114, AP000046, AL022326, AC006139, AL008726, U80459, AL035460, AL133245, AL049776, AL034548, Z83847, U85195, AC005323, AL034379, AL023281, AC004213, Z86061, AL022723, AC004671, AF001550, AC005736, AC006255, AP000210, AP000132, AC002039, AC005335, AC007227, D88271, AC005369, AE000658, AL034417, AL031845, AP000228, D87022, and AL132987.
HCWBV09	852	746335	1 - 366	15 - 380	AL042853, AA503947, AA349854, F33121, AA366035, AA369477, AA318652, AAS13999, AA508509, AA846981, AA341228, F19258, AA657458, F29989, W07032, AA559290, AA483034, AA724230, AI284583, AI358229, AA558697, N66067, AA310158, AA878495, AA363501, AA662974, AA515435, AI365988, AW406755, AI921188, AA371568, AA364193, AA723017, T66105, AW193546, AW339687, F36373, AA658235, AAS57879, AI635272, F26152, AA780929, F36273, AA737154, AL120502, T07346, AA683037, AW270270, H58672, AA828680, T40077, AA828826, AA747620, AW008317, AI866908, R40625, AI457397, AI432713, AA580889, AL137954, AJ357288, N41759, AL036854, AA092739, F24284, AA345333, H77900, AA932099, AA618002, C05986, AL079843, AL118911, C17838, AI745325, AI623898, AI246119, AA626747, AI431688, AA065087, R44592, AA301813, AI565245, AA662017, AW089789, AA313016, AL037554, AI439360, AA372106, AA654322, AA148489, AI284640, AI688928, AA159978, R13151, AA639270, T25706, AW193295, AW338086, AL041382, AJ955323, T29180, AI624698, AA339187, AI792864, AI818620, Z97053, AP001053, AC007285, AL022717, AL021918, AL121934, AC005632, AL121658, AL031736, AC007536, AL109799, AL049757, AC005215, AL022318, AP000034, AP000101, AL008629, AL034548, AC005803, AL133312, AC004740, AP000301, AP000045, AP000113, AL035413, AC004010, AL078602, AF039906, AL117328, AF055066, Z82182, AL121603, Z75890, L78833, AP000141, AP000089, AC004884, AC004066, AP000264, AL035684, AC008115, AL023281, AC005180, AC007283, AC007312, AL021939, AB023049, AC004600, AC000353, AL020993, AC004890, AC004712, AC007773, X77531, D87675, AP000512, AC005856, AC002377, U47924, AC004049, AC005015, AL109984, AP000692, S78429, L44140, AP000031, AL031664, AL022394, AC008109, AL023803, AC023803, U47924... AC004470, AL031664, AL022394, AC008109, AL023803, AC008984, U82668, AL049776, AL109939, D83737, AP000144, AL008636, Y10196, AC006965, AC006312, AF109907, AC004259, AC007461, AP000230, AP000555, U96409, AL031650, AF190465, M87918, AF109907, AC004941, AC005911, AP000431, AL035448, AC004797, AC002485, AC006312, AC005399, AF108083, U95740, Z98950, AP000352, AP000252, AP000350, AC002316, AL035410, AC007848, AL109628, AC007666, AC004019, AC005625, AC005324, AC005944, AC005081, AC005829, AC020663, AC005696, AL121915, AL035415, Z99756, AC000052, AC002996, AC006071, U75931, AC004466, AL049874, AC005225, AL035461, AC005251, AL049872, AC005332, AL110292,

1631

| HCWBV51 | 853 | 725889 | 1 - 315 | 15 - 329 | Z98742, AC006552, AC016026, AC006285, AC004087, AC000067, AC005355, AC005799, AC005486, AB023051, AL133448, Z84718, AF067844, AC005184, AC004542, AC004477, AC012085, AC005998, AC016025, Z82185, AC006088, AC005208, AF044083, AL049829, AC005204, AC007226, D16583, U66059, AC004913, AP000134, AP000212, AC004020, AL031591, AP000194, AL035464, AC007537, AL079305, AL008582, AL080243, AL033376, AC000085, AC002558, AP000048, AC005703, AC005071, AC005370, AC000120, AL031733, U18400, M37551, L47234, AL035455, AL021786, AP000088, AC006077, AL132992, AL031283, AC004834, AC005212, AC004933, AC004703, AC002349, Z82244, AP000351, Z86062, AP000556, AP000557, AC007563, AC004902, AC005231, AL049712, AP000553, AC006149, and AF111168.

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HCWBV96	854	796584	1 - 396	15 - 410	AA554392, and AA372426.
HCWBX63	855	527081	1 - 117	15 - 131	
HCWBX65	856	970694	1 - 164	15 - 178	AW104748, AA280632, AA655004, R67365, W85752, AA557970, R95704, H05073, AA552726, T78484, AA806734, AA515051, AA461317, AA569743, R84309, AA604497, AA633266, AA774184, AA158328, R84303, R83929, H02135, W30462, AA160481, N40815, R69255, AA084337, AA130658, AA196796, RS2163, AA720548, H80357, H73704, H86860, H02877, T94075, H64778, AA620464, H48636, W56203, RS0087, AA483223, N71724, N57890, W16581, R92288, AA158301, AA171416, AA578251, AA858197, R66878, R84296, AA161083, R47822, R93576, W95939, AI191227, N87661, AA628602, AA721981, N20219, AA522942, AA810370, AA679009, AA602528, H80373, H80386, N53573, AA938225, AA190895, N70442, AA584751, AA159974; T49241, T71030, AA469021, AA601499, AA578017, AA020729, AA047296, AA669634, AA558616, AA112299, R32415, R41717, H79297, AA342914, AA644538, AA650271, R97634, AA527958, AA583394, AA634145, T53128, R91159, AA639248, R67504, T97558, AA521355, AA864983, AA126677, AA574110, H68999, H79151, AA773176, AA167643, AA664015, AA204718, AA721599, AA335972, R89511, AA224129, H11124, H49061, AA169194, W74484, T16056, AA459379, AA173071, AA824654, H08496, N25296, AA582911, AA873560, AA524838, AL133723, T92445, AA137017, F10924, AA663486, AA693484, AW402067, AA205915, H64805, AA226153, AA199616, AL035604, AC005900, AC000355, Z84718, AL035416, AP000351, AC004067, AC004804, AL033521, AJ006996, AL022165, Z97876, AC010072, AC003029, Z98304, AL096770, AP001170, AC006039, AC003024, Z92543, AC007406, AP001068, AC004531, Z83313, AC005162, AC007050, AC005535, AL031294, AC004949, AF146191, AC005823, AC006946, AC007751, Z73361, AL034451, AL132766, Z84487, AJ011930, AC007541, AC002454, AL035695, AL035415, AL109733, AP000049, Z99716, AP000352, Z98950, AL136363, AC008064, AC004626, AC004453, AP000354, AP000311, AP000355, AC005327, AC004051, Z84467, AC006026, AC003686, AC007842, AL022097, AL121823, AC002488, Z86061, AC008179, AL008710, AC002412, AJ006998, AE000659, AL049554, AC007252, AL132985, AL078477, AC005541, Z84719, AL031904, AC006975, AC004996, AC004158, Z95118, AC007993, AC006369, AP000949, AC006115, AF047825, AP000515, AL035252, AL049844, AL049550, AL122023, AC005737, AL049838, AC004024, AC004451, AC004140, AC007277, AC006120, AC007065, AC005597, AL035422, AC003082, AC006031, AC004059, AC002449, AL078621, AL109854, AC006352, AL022069, AC000047, AL031446, AC003973, AL096862, AB019437, AL021397, AL121892, Z98255, AC004994, AC009225, AL118497, Z82205, AC009288, Z84470, AC004842,

HCWBX67	857	506730	1 - 508	15 - 522	AC003692, AC006397, AP000552, AC010849, AL117351, AC004057, AC006984, AC004385, AP000023, AP000506, AC005342, Y10196, AC005871, Z81365, AL008709, AL080239, AC007363, AL031654, AC002403, AC007533, AL050333, AC007159, AL109656, AL050308, AF064866, AC004208, AC004081, AC005393, AL049565, AC006062, AL033397, AP000014, Z98051, AC002430, AC007617, AC006213, AF064862, AL021997, AC006227, AF064865, AC002524, AC005962, AC006071, AC009514, AC007384, AC002429, AF055066, AC004988, AB000882, AC004761, AC005768, AC004467, AC004459, U91323, AF164343, AC005516, AC018633, AC006487, AL109758, Z98941, AC006288, AC004830, Z98172, AC000100, AC006195, AC010349, AC002499, AL031012, AL022322, AC002056, AC005863, AL024497, AC004629, AC002381, AC004745, AC006270, Z94055, AL109753, and AC004889.
HCWBX75	858	767491	1 - 121	15 - 135	
HCWBZ78	859	706521	1 - 473	15 - 487	AL050322.
HCWCA51	860	849923	1 - 499	15 - 513	AC002395.
HCWCB37	861	527683	1 - 399	15 - 413	AF150189, AF150193, and AF150184.
HCWCB80	862	529234	1 - 210	15 - 224	
HCWCB89	863	542340	1 - 175	15 - 189	
HCWCC62	864	967306	1 - 386	15 - 400	
HCWCC77	865	527077	1 - 278	15 - 292	
HCWCC82	866	705347	1 - 393	15 - 407	
HCWCE02	867	849968	1 - 312	15 - 326	AI266137, AA446645, AA364006, AA689351, AW419126, AA365520, AA642464, AA223999, AA502207, AA526099, AW192199, H62778, AA805848, AA493464, AA525807, AI885896, AA603323, T67090, AA487209, AI272052, AA971196, W45205, AA228368, AA593471, H81270, AA527633, AA584655, AA485482, AA468505, F13749, AA468371, AA715173, AA715075, AA581895, H15241, AA302763, AA084609, AW028376, F25301, AA824484, AA552809, AI245693, AW089952, AI277211, AA630947, AW188742, AA296614, T65951, H91047, AA583728, S42653, AC004408, AC007136, M87914, AC005859, AC009247, AL135744, AL133353, AL022336, AC004686, AL121915, AP000088, AC004106, AC005049, AC005209, Z86090, AF207550, AC005229, AC002045, AC004975, AC004150, AF196972, AC002044, AC007450, AL049760, AC005484, AP000066, AC006130, AC004999, AC007880, AL022316, AC009516, Z85996, AL031589, AC006430, AL096791, U80017, AC006026, Z82217, AC002350, AC004797, AL031322, AC005180, AC008033, AC005324, AP000096, Z94277, AF165926, AC004687, AC005006, D87675, AC004832, AP000252, AC002375, Z95152, AL049872, AP001053, AL035420, U91322, AF134726, AC007845, AC005619, Z84469, AC004673, AC003025, AC004491, AC006014, AL009173, AC002476, AC004813, AC000052, AC005412, AL035400, AC005971, AC007546, AL031681, AC006323, AL035658, Z94801, AC007226, AC004148,

					Accession numbers
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HCWCE21	868	523224	1 - 540	15 - 554	AA131704.
HCWCE35	869	706489	1 - 289	15 - 303	AW440424, N55515, AI025905, AI285493, AI683426, AL133906, AA834670, AI446623, T70299, AC004983, AL035608, AC005800, AC006050, AF165926, AL031282, AF109907, AP000152, AC005354, X74984, AC004922, AF052051, AL049830, AF146367, AC003042, AF124523, AC005291, AJ003147, U82668, AC006124, AC004890, AC002306, AC005288, AP000300, AP000549, AC006946, AL031666, AC006197, AC004874, AP000113, and AP000045.
HCWCE63	870	527678	1 - 244	15 - 258	T96277, T96279, and AP000555.
HCWCE69	871	757800	1 - 284	15 - 298	
HCWCE71	872	932549	1 - 235	15 - 249	AI884861, N63755, AA586433, AI018726, AI624038, AI246061, AA341865, H71678, R48980, AW192648, AA317414, H81732, AA679353, AW088557, AA662614, AA054639, AW408396, H86579, AA063115, AA730488, AA371883, AA558404, AI367222, AI054090, AW069769, AA486877, W94450, N30205, AI360504, AA985199, AA077637, W42587, AA018923, AI249853, AA012829, AI284543, R87646, AI254770, AI251944, AI251034, AI251203, AI251284, R33091, AI250552, AI904944, AA303131, AA809011, AA206366, AI926597, R56810, AI459666, AA302660, H52397, AA304790, H53023, AI537800, H61871, AA774006, R19199, AA192731, H90032, AI251241, AL037006, W68328, H65213, AI223626, AW019964, AW303098, AA744095, H07953, T02817, AW265688, F23307, AA295893, AI903464, AA295899, AI369076, AW341741.

AI679045, AI276360, AI061303, AA808725, AA564256, R89560, HS6003, AW190302, F35674, T58480, T94592, AI860535, AA846014, AA114131, AA322542, R14824, AI251576, AI355246, AI049504, AAS33660, AAS24766, AI306232, AI434144, AW274191, AI583466, F25984, AA054085, AI445338, AW169038, AA744423, AI859428, AA364323, R94968, H10454, AA468494, AI791659, AA429942, AW327555, AA632907, AI903448, AA628456, H47736, H53217, AAS07993, AW085839, AI224619, AA862029, H53284, AI805261, AI612810, AI246192, AA115655, H54252, AA278814, AI880889, T48829, AA297961, AI479068, AI565084, H04971, AI699049, AI929298, AA339789, AI804519, AI929825, AI865980, AA730764, AA662989, AA702724, AA700958, AW005974, R72264, AI539024, AA486819, AI114645, AA678616, AA721530, AA669185, AI004740, AA434346, TS4783, N86446, AA731361, AL046818, AW157180, AA721998, AA449979, AA721523, AA363003, AC000063, AC003667, AC006006, AC005593, AL136295, AF042484, AC009225, AL132987, AC006211, AC006398, AL096816, AF093117, AP000295, AC002553, AP000112, U95626, AC004015, Z68284, AL122021, AL078476, AL031446, AC006229, AC005610, AF064861, AC005189, AL049795, AF196972, AC006965, AL035467, AC008119, AC005537, AC007625, AC006511, Z98884, AL031599, AC004069, AL096701, AC006559, AC002120, AL096792, AC004187, AL136504, AC005815, U08988, AL050311, AC006060, AL022717, AL035067, AL009181, AC004855, AC002088, AL034402, AC003106, AL022069, AL023582, AC000094, AL022578, AC005513, AC006324, Z97195, AC006840, AC006077, AC005158, AB020864, AL031584, AL109984, AC007458, AC000085, AC004969, AC005351, AC007869, AC004884, AC002496, AL035687, AL049650, AL034421, AC005053, AC008154, AC002456, AL133246, AL031346, AP000516, AC005799, AC002430, AP000355, AC007384, AC005389, AL031602, AP001137, AL031848, AL035697, AC003111, AL050318, AC005225, AC005261, AL031120, AL109985, AC006213, AC007671, AC009227, AC004805, AC005015, AC002369, AL022319, AC007032, AC006500, Z82206, AC005969, AC002554, AC004812, AL136168, AC002081, AC018633, AL117328, AC004460, AC007065, AL135744, AL096712, AP000835, AC004592, AP000964, AJ011930, AC002556, AL080276, AC000086, AC005546, AL031347, AL049699, AC008072, AC006481, X71402, Z85986, AL117338, AP000565, AC005901, AC005837, AC005089, AC002072, AC004941, AC006296, AC005480, AC004129, AL031845, AJ004862, AP000697, AP000261, AF196779, AC005518, AC006263, AC004949, AC008126, AL049176, AL031664, AC004789, AC004049, AC007199, AP000561, AL049780, AC007055, AL034420, AL031671, AJ003147, Z82189, AC004017, AC006241, D83253, AP000502, AC002551, AC002551, AL110292, AP000100, AP000035, AL020997, AC006465, AL096843, AL132985, AL034423, Z95114, AL133163, AC003088, AC006417, AC004762, AC005872, AL034411, U85195, AF205588, AC022517, AL136297, AC000025, AC000072, AL022476, AL021937, AC004854, Z85987, AC006141, AC004000, AC005823, AF134726, AC005227, D86993, AE000658, AC007656, AC007390, AC008041, AC006075, AL034343, AC004383, AP000514, AL023807, AL008631,

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HCWCE86	873	964648	1 - 389	15 - 403	AF070717, AF049895, AC002425, AL078644, AC004386, AC000353, AC004007, AC007192, AC002400, AC006064, AC002299, AC008067, and AC005756.
HCWCF04	874	615626	1 - 39	15 - 53	
HCWCF06	875	954580	1 - 204	15 - 218	
HCWCF91	876	527558	1 - 335	15 - 349	
HCWCF94	877	952684	1 - 536	15 - 550	
HCWCG31	878	527090	1 - 609	15 - 623	
HCWCG62	879	575336	1 - 320	15 - 334	T05617, AI523477, N38803, AI754105, AI754567, AI755214, AI298079, AI863279, AW023975, AA614139, AI860535, AA209436, AA363957, AL042373, AI279417, AI080732, AL038977, AI491755, AA582746, AI624234, AI267356, AA741301, AA489860, AI630894, AI078409, AI278211, AI560073, AI249688, AW316599, F29071, AI686563, AW373645, AA831638, AI038304, AA612578, AI356264, AI569100, AW192599, AI080307, AA832016, AA984543, T67090, AI583142, AAS07990, AA311432, H40478, AW071109, AL134167, AL045476, AA995827, AW439703, AA702550, AC005399, AF038458, AL031121, AC012085, AC005014, AL031985, AC002994, Z83844, AR036572, U91328, AC003662, AC006449, AL121653, AC005839, AC007386, AC009501, AC004019, AF064857, AC005589, AF139813, U80017, Z82195, AC002395, AC004963, AC005015, AC006064, AC002094, AC005520, AL031005, AL049282, AC005529, AL022238, AL034429, AL024498, AC003025, AL049829, AC004882, AL034418, AL022331, AC006343, AL133382, X60459, AC003103, AC004986, AC004223, X64467, AL022400, AC004228, AC005018, Z75887, Z97056, AC006111, AP000555, AC010077, AC002492, AL133163, AC007207, AC007385, AL109842, AC004144, AC004131, U89337, AC000092, AP000692, AC005932, AL050318, Z82244, Y10196, AC004991, AC003108, AC006032, AC004664, AC007934, AL049779, AL049636, AC004033, AP000152, AP000011, AC004382, AC006930, AC005578, AL022328, AL035700, AC007731, AC006084, AC005500, AC005182, AC002477, AF049895, AC004644, AP000501, AC003007, AL031589, AL008715, U55184, AL008710, AL049576, AL022313, AC005102, AL049780, AC005017, AC002316, AC004016, AC006125, AL022476, AL031433, AC005482, AC007191, AP001137, AC005037, AL034402, AL035684, AC006292, AC005740, AC006101, AL121754, AC000134, AF053356, AL021546, AC009399, AC006597, AL049229, AC002422, AC004820, AC007536, AC005666, AC006130, AC005086, AL049872, AP001058, AC005516, AC006480, AC006238, AC007228, D86995, AC009363, AC007057, U95743, AF047825, Z98044, AC000353, AC006323, AC004804, AL049697, AC004805, AC003104, AC004876, AL033397, AC000159, AC005632, AF126403, AC007114, AP000359, AC002073, AL031274, AJ003147, AL031672,

HCWCH01	880	920706	1 - 279	15 - 293	Z82900, AL109801, AL031311, AC005527, AC004594, AC004126, AL035685, AC007021, AC004593, AC005952, AP000123, AL050321, AC005231, AL035697, Z49235, AL121603, AC006388, AC009225, AL049538, AC022517, Z97184, AP000141, AC004910, AF001550, AC003012, AC005225, AC007156, Z93017, AF196972, AC004234, AC006530, AC004079, AP000215, AC006312, Z94277, Z68273, AC005777, U95740, AC007276, AC002470, AL031228, AC006011, AC004990, AL109827, AC004674, AC005332, AP000088, AL008635, AC002418, AC005011, AL021977, AP000328, AP000055, AP000170, Z83843, AL031680, AC004765, AL049776, AL022336, AL031286, Z93023, Z84481, and Z92846.
HCWCH22	881	675011	1 - 132	15 - 146	
HCWCH45	882	577704	1 - 292	15 - 306	
HCWCI01	883	921586	1 - 437	15 - 451	
HCWCI38	884	556358	1 - 544	15 - 558	
HCWCI86	885	790718	1 - 147	15 - 161	AC004002, and L78810.
HCWCJ85	886	529243	1 - 324	15 - 338	
HCWCL10	887	888992	1 - 466	15 - 480	
HCWCL62	888	715981	1 - 309	15 - 323	AP000277, AL022147, AP000037, and AP000105.
HCWCL67	889	751963	1 - 328	15 - 342	
HCWCM16	890	667392	1 - 231	15 - 245	AC004968, AF001552, and AC004876.
HCWCM65	891	529230	1 - 437	15 - 451	
HCWCM96	892	963564	1 - 225	15 - 239	
HCWCN25	893	518793	1 - 297	15 - 311	AA577748, F17700, AA703972, AA548087, AI446474, H05073, D56402, AI053786, T78484, AI890385, AA837677, AI979005, AA663966, AI254485, AI859834, AA077776, AA492399, AA721615, AA857296, AA663701, AA326410, AL118911, AA503168, AA536015, AI251111, H57826, AA357307, AI859946, N39097, AI538540, AA531554, AA972238, T94328, AA564561, H10143, R32200, R26134, AI633185, M78169, AW419081, AI671035, AW079809, AA515350, AW304531, AI623899, AA487542, R94288, AA297968, T92957, AA564145, AA828762, AI610644, AI291317, AA776552, AI151407, H94870, AI261913, AA148656, AI912514, AA526656, AA614010, AW337454, R91232, AA814510, AA837646, AA827978, AA360987, AA501614, AA235575, AA360996, AA572960, AL031685, U82828, AC008394, AC004854, AL078471, AC002543, AC002082, AC003029, AL035072, AC005971, AC006001, AF196969, AC002312, AC004386, AB023051, AP000512, AC004821, AC004996, AC003041, AC004231, AP000343, AC005740, AL049761, AL020997, AP000513, AC004930, AC004158, AC005519, AL121652, AL133246, AB001523, AC002351, AC020663, AP000330, AL008582, AC005914, U07000, AC002310, AL034420, Z99714, AL109653, AC007262, AP000215, AC004675, AC006257, AC004990, AC005696, AC006023, AC007055, AL033518, Z95116,

HCWCN40	894	1 - 425	15 - 439	AC016027, AF088219, AL034417, AL008635, AC005206, AC002544, AC005037, AC005081, AC016830, Z99716, AC006126, AF015720, AL031672, AP000244, AL121655, L78833, AL096701, AC005069, AC008372, AC004796, AL035587, AC005013, AC007676, AC005667, AC004638, AL049776, AL008725, AC004087, AC005951, AB023052, AL035461, AF064861, AC005832, AC005332, AC007227, AJ229041, U62293, AC008012, AL023879, AC005015, AC005046, AC005529, AC006285, AL121658, AF001550, U85195, AC005736, AC004955, AF037338, AL031229, AL132857, AC007384, AL122020, AC007899, AC002980, AC005722, AC005255, AL049552, AF165926, AC004477, AC004820, AE000658, AF111169, AL022320, AC005251, AL050318, AP000210, AP000132, AC006160, AC006079, AC016025, AC003043, AC005972, AC002531, AC005057, AF111168, AL049795, Z97196, AL021939, AC005544, AL022322, AL049869, AC002301, AC009247, AL109802, AL008718, AP000555, AC004226, AC005023, AC007510, AC005412, Z68870, Z83840, AL031228, AL035415, AP000248, Z93017, AC000052, AL031005, AC004491, U63834, Z99128, AC005702, AL021578, AL135744, AC007308, AC004921, AC008033, AF053356, AC004047, AL132712, AC009516, AC007199, AL023803, AL110502, AL117328, AP000690, and AC005065.
HCWCN45	895	1 - 505	15 - 519	AL032822.
HCWCN61	896	1 - 294	15 - 308	AC004098.
HCWCN92	897	1 - 419	15 - 433	AA716191, AL031432, and Z65992.
HCWCO02	898	1 - 303	15 - 317	AA554430, AA528234, F16356, AC007263, Z86064, AL122023, AL008719, and AC002430.
HCWCO21	899	1 - 145	15 - 159	
HCWCO35	900	1 - 504	15 - 518	F30251, AA371410, AA831919, AA385775, AI929796, AW089625, AI345334, R70883, AI283938, AW008184, AA535216, R92658, F24272, R70884, AA610255, AI885465, AI884383, AI908508, AI908525, AI278801, AC004491, AC004448, AC005291, AL031121, AC007880, AC007193, AC003041, AC008372, AL049776, AF196969, AC005091, AC016830, AC005102, AC006449, AF042484, AC006013, AC005921, AL009181, AC006948, AC005180, AC004242, AC006023, AC007488, AC004659, AC002039, AC004891, AC005399, Z75744, AC004019, AL031733, AL031228, U95742, AC007216, AL035684, AC004087, AC005971, AL110502, AL049646, AL031289, AP000555, AC002425, AL096712, AC007226, AP000689, AL031311, AC005535, AC003663, AC005225, AC008041, AC005820, AC006530, AC002400, AL031588, AC005874, AF134471, Z95115, AL117355, AP000512, AC007056, AC004475, AC004913, L78810, Z83844, AC007690, AC006160, AC006277, AF109907, AC005803, AC005015, AC004686, AC004865, AB020865, AL121653, AC005668, AC005932, AC004921, AC004843, AC012627, AL078639, AC005839, AC005954, AC006441, U96629, AL022165, AC007386, AC004033, AL035413, AC006001, AC004142, AP000302, AC004859, AC009533, AC005736, AL132994, AC006285, AC005726, AC002094, AC007055, AD000092, AC005520, AP000500, AF111168, AC005081, U95740, AL121923, AL121825, U07000, AC002544, AC002470,

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HCWCO54	901	558274	1 - 368	15 - 382	N53621, AW302766, AA843874, AC007677, AP001136, AC009308, AL034377, AP000473, AC003669, Z84469, AC006948, AC007077, AL023799, AP000099, Z97198, AP000036, AL035686, Z68326, AC005341, AC007126, AP000262, AC002367, Z83313, AC009399, AC004806, AL022166, AC002066, AJ229041, AJ133269, AF020801, AF107885, AC007556, AC004597, AC005837, AC002527, and AL080239.
HCWCO63	902	557917	1 - 310	15 - 324	AC005907.
HCWCO72	903	527546	1 - 296	15 - 310	
HCWCO77	904	772515	1 - 99	15 - 113	AA828573.
HCWCP68	905	573148	1 - 203	15 - 217	AL008639.
HCWCQ15	906	527688	1 - 312	15 - 326	
HCWCQ48	907	531423	1 - 106	15 - 120	
HCWCQ95	908	723610	1 - 99	15 - 113	
HCWCR31	909	693632	1 - 656	15 - 670	N66690, AJ200947, AJ127410, AJ932346, AW008872, C06101, and AA053116.
HCWCR64	910	526482	1 - 309	15 - 323	AW150387, AA533054, H71678, AA568314, AW419389, H72278, AI187148, F31811, AL040374, AI431513, AA605266, AA610433, AA904211, AA018923, AA513921, AW167154, AA468505, AA468371, AI880329, AA516320, AA809179, AI917132, AA056248, H67064, AA579278, AA493628, AA492524, AW002831, H72688, AI640411, AA605201, T74524, AA228368, AA721561, AW275699, AA742775, AA282951, AA862075, AI583291, AA365520, R74433, AA577141, AI635440, AA689351, N73060, H84412, H79453, AA515138, AI569401, AI366993, AI915293, AA526193, AA502098, AC004525, AC002303, AC007227, AL024507, AL021368, AC005088, AF196969, AF030453, AL034371, AL031905, U62317, U95743, AC004985, AC002565, M87889, U95741, AF053356, AC005971, AC008072, AC004883, AL031657, AL022336, AC006079, U07000, AL049539, AL049780, AC008072, AC005841, AP000052, AP000120, AP000702, AF111168, AC006241, AL031282, AC002375, U91323, AC006486, AC000004, AL096701, AC009516, AC004887, AC006965, AC006486, AC000004, AL096701, AC009516, AC004983, AL049569, AC006088, AL031056, L78810, Z84487, AC005244, AP000320, AC009464, AL049758, AL020997, AL049692, AC004448, AP000884, AC006285, AC003663, AC005899, AC004466, AC003085, AC005041, AF002223, AL031985, AL121769, AP000141, AL021918, Z98941, AC006965, AC005632, AL109801, AP000167, D87009, AC006449, Z95113, AP000553, AC004685, AC006117, Z95152, AL033527, AF134726, AC002551.

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HCWCS12	911	585202	1-285	15-299	
HCWCS51	912	921636	1-217	15-231	
HCWCT07	913	954070	1-258	15-272	AC002306.
HCWCT23	914	676336	1-250	15-264	
HCWCT48	915	741925	1-447	15-461	AC005599.
HCWCT85	916	527543	1-321	15-335	
HCWCU01	917	921618	1-310	15-324	AA729117, AI791301, AI791458, AJ732502, AA171892, and AAS26416.
HCWCU17	918	577688	1-329	15-343	
HCWCU32	919	725584	1-427	15-441	AI014353, AAS92982, and R17976.
HCWCU57	920	764602	1-451	15-465	AW418610, and AL109667
HCWCU58	921	527695	1-305	15-319	
HCWCU63	922	527541	1-163	15-177	
HCWCU94	923	713416	1-292	15-306	
HCWCV01	924	921569	1-293	15-307	AI433503, AA715955, AW150900, W04964, AL031662, AL109623, AP000009, Z98742, and AF196969.
HCWCV09	925	861950	1-420	15-434	
HCWCV16	926	861839	1-552	15-566	

HCWCV58	927	966512	1 - 314	15 - 328	W21218, AI445373, AI049701, N42508, AI870444, AA151904, AI564301, AA147801, AL134898, AL120698, AI056259, W63553, AA515172, N73169, AI246061, AA278496, AW019964, N77384, AI537020, AW238016, AI557090, AI223626, AI973173, F08866, AW021116, R48980, AI860535, AI054090, AI251024, AA728861, AA565911, AA715351, AI284543, AI254770, AA448050, AI927261, AI251944, AI251034, AI251203, AI251284, AA559166, AI250552, AL096791, AC010205, AP000201, AP000097, Z99716, AP000240, Z98304, AC003087, AP000556, AL031685, AC006211, Z98742, AC005034, AC004223, AC002476, Z83844, AC007380, AP000557, AL034555, AC005839, AL132716, AL034449, AP000553, AC003007, AC004991, AC012083, AC002381, AC002425, AL022324, Z98946, AC005015, Y10196, AP000355, AC005821, Z93023, AC002470, AC002091, AL139054, AF130342, U80017, AL035420, AC00448S, AL121653, AC009509, AC005740, AC005722, AP000248, AB023049, AR036572, U91328, AC004126, AL033397, AC007707, AL049694, AC006130, AL035659, AL109865, AF196969, AC005829, AL109657, AC002368, Z84466, AC009247, AC002347, AC007055, AC005011, AF001549, AC004827, Z98048, AP000352, AL031680, AC005235, AL049794, AC005081, AC003029, AC003101, AC004079, L44140, AC005261, AL121652, AC004659, AC006992, AL034419, AF111168, AC005003, AC005486, AP001053, AC012384, AC006285, AC005089, AC005534, AC005071, AC004797, AL022165, AP000343, AC006312, AC005519, U89337, AL078613, AC003663, AP000501, AL021878, AF200465, Y07848, AC002457, AC003982, AC005696, U95739, AL022334, AC006511, AC006333, Z98051, U96629, AP000039, AP000107, AL079340, AL031281, AC009399, AC007057, AL031228, AC002563, AL035587, AC005919, AC005274, AC005911, AL035071, U91323, AC005072, AL031286, AL121603, AL034582, Z84489, AC008496, AC004491, AP000345, AC007193, AC004448, AC005952, AP000555, AC007225, AL133163, AC005330, AL050404, AP000689, AC005632, AL096701, AC005225, Z83826, AL109801, AL035682, AP000344, AL008718, AL022326, AC004139, AL008627, AL031985, AC005799, U78027, AC004834, Z98941, AC004821, AC005014, Z98884, AF196779, AP000300, AC005095, AC006512, AC007934, AL117337, AC007200, AL035422, AC005243, AL031283, U82828, AC005332, AC005971, AL035089, U52112, AL022336, AC005702, AC004891, L48038, AL132826, AP000113, AP000045, AC007011, Z93017, AC004816, AL022319, AC004647, AC006529, AC004859, AC005684, AC007551, AF205588, AL049692, AC004475, Z98044, AL034553, AC007371, and AC003689.
HCWCV75	928	527080	1 - 226	15 - 240	AC004801.
HCWCV85	929	966987	1 - 318	15 - 332	
HCWCV93	930	792550	1 - 76	15 - 90	
HCWCX18	931	574933	1 - 364	15 - 378	
HCWCY16	932	507191	1 - 215	15 - 229	
HCWCZ33	933	523265	1 - 223	15 - 237	
HCWDB74	934	521894	1 - 265	15 -279	AA745628, N69399, R32162, T51436, AI246386, H80215, AI139971, N27874, AA565911.

AAS23719, AW390278, AI566236, AA515160, AA299351, AA425924, AA984585, AI583745,
AA649174, AW377921, AI570019, AI281622, AI679759, R70884, AA833828, AW377907,
AW377863, AW377912, AA078384, AA468494, H60331, AW176639, H63953, AA468956,
AW390555, AW377894, AL038977, AW377926, AW377843, AW377862, AA484191,
AW390250, AA702637, AA584788, AI133083, AI246061, AA516018, AA678616, AW151870,
AA548221, AI524240, AA468975, R70883, AW384076, AW237903, AA514450, AA218835,
AI734155, AI282821, AI983447, AA722331, F33820, AI749306, AI538491, AW270255,
AW337483, AA309457, AA334993, T31290, AA357878, T53133, AW179040, AA572813,
T40210, AI369925, AA579281, AI240755, AA625565, AA419225, AI290777, AI373810,
AA366676, AI628482, AW379218, AL042667, ALU42670, AA564925, AL050321, AL023807,
AL033524, AC005081, AC005015, AF121781, AL035106, AL080243, AL049611, AC005225,
AL031286, AF001549, U61981, AC005746, Z69705, AC005940, AC002112, AP000131,
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AF067574, AC005529, AC005383, AC006576, AC010170, AC005972, AC005821, AC002390,
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AF109907, AC006271, AC005899, Z98749, AC002456, AC005037, AC004137, AC004966,
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AC002289, AC002369, AP000503, AC005846, AC002403, AC005288, AC002307, AC010202,

HCWDB94	935	531417	1-299	15-313	and AC008041.
HCWDD15	936	660571	1-264	15-278	AI697096.
HCWDD60	937	575555	1-147	15-161	
HCWDG46	938	715509	1-147	15-161	
HCWDG49	939	861951	1-449	15-463	
HCWDH65	940	574250	1-533	15-547	
HCWDH85	941	574262	1-168	15-182	
HCWDH92	942	790618	1-212	15-226	
HCWDI37	943	849867	1-414	15-428	
HCWDI43	944	527685	1-309	15-323	
HCWDI64	945	924632	1-238	15-252	
HCWDI72	946	573034	1-163	15-177	
HCWDI79	947	526765	1-394	15-408	
HCWDI82	948	671636	1-221	15-235	
HCWDI89	949	953750	1-756	15-770	AA703394, AA128633, AA001607, T91402, AA001264, T84635, AA877628, and T25726.
HCWDI92	950	733422	1-341	15-355	
HCWDJ21	951	524780	1-347	15-361	AP000456, and AL078474.
HCWDJ23	952	527555	1-346	15-360	
HCWDJ31	953	531418	1-262	15-276	AA843450, AA077952, F19258, AA626678, AA469451, AA340003, AA743956, AA745410, N27351, AA327323, AW438916, F29989, AW406755, AI872227, R91994, AW021583, AI358229, AL041368, AW340844, AW440836, AI365988, AI792108, AW339687, AI635272, AA618158, AI439269, F31204, AI824562, AA077817, AI246796, AI205126, AA515128, AW105538, AI003734, AL133723, AI803348, AI250019, AW236342, AI144055, AW088202, AA932099, AA594145, AI216799, AA377730, AA077223, F37286, AA486680, AA016075, AW304584, AW440976, AA947801, AA515938, AA228329, AL040913, AW269639, AI820539, AI286264, AA515435, AA551509, AI003743, AI291124, W60516, F35659, AI291268, AJ963263, AW074398, AI537030, AW419262, AL037554, AA610786, AI267847, AA362700, AA084070, AI653809, AW104748, AI608626, AI003172, AA515224, AA713815, AL138265, AW086257, C16459, AI962050, AA745582, AA077935, AA581342, AA338234, AL079812, AA633892, AI050007, AI917271, AA363989, AI471481, AA744074, AA744088, AA745355, F25203, AL120483, AA515051, AI357551, AI929531, AI049722, AI433187, AW162049, AW303876, AI234640, AI816537, AI908628, AA557879, AI873916, AW407578, AA501344, AI469878, T12272, AA659774, AA252729, AA338431, M78177, AI802526, AI952786, AI244758, AW274349, AI890923, AA715606, AW338754, AA341398, AI866964, AI240891, AW303196, AW301350, AW188484, AW029038, F36273, AI306524, AI287284, AI904894, AW166815.

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AI039809, AI336054, AI355587, AL138455, AA025083, AI139968, AA229785, AA598824,
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AA503258, AW327960, AI926846, AA679872, AA856981, AA501614, AA501600, R68874,
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AC005678, AL034408, X53795, AC006353, AL096791, AC002543, Z83001, AC005264,

HCWDJ45	954	523227	1-440	15-454	X55448, AC006388, Z85987, AL021940, AC004029, and AC005011.
HCWDJ89	955	697736	1-410	15-424	AC003678, and AC003689.
HCWDLJ9	956	669721	1-356	15-370	AA279751.
HCWDL45	957	889416	1-397	15-411	Z98747.
HCWDL68	958	752320	1-163	15-177	AA315353.
HCWDM02	959	920563	1-413	15-427	
HCWDM06	960	935898	1-175	15-189	
HCWDM07	961	953742	1-468	15-482	
HCWDM14	962	849962	1-370	15-384	AW275378, AA551080, AA971039, D45576, Z60609, and Z60608.
HCWDM23	963	676215	1-449	15-463	
HCWDM60	964	754785	1-324	15-338	
HCWDM79	965	578967	1-340	15-354	
HCWDN15	966	557862	1-193	15-207	AF049574.
HCWDN60	967	861882	1-273	15-287	AW104830, and Z99714.
HCWDO11	968	967364	1-339	15-353	
HCWDO56	969	961273	1-516	15-530	
HCWDO65	970	920523	1-424	15-438	
HCWDP85	971	747141	1-282	15-296	
HCWDQ35	972	573577	1-311	15-325	
HCWDR01	973	839104	1-465	15-479	
HCWDR42	974	529354	1-285	15-299	AC022517.
HCWDR63	975	849899	1-531	15-545	AC006146.
HCWDR86	976	527690	1-513	15-527	H47333, AA465102, AA614574, AC006343, AL049759, AC004876, AC006515, AC007057, AC005370, AL096755, AC004084, AC005037, and AC005488.
HCWDR89	977	787025	1-283	15-297	
HCWDS10	978	880973	1-410	15-424	AA158919.
HCWDS19	979	418009	1-203	15-217	
HCWDS26	980	684696	1-370	15-384	AI859744, AA525331, AW249151, AI720943, AA715075, AI567391, AA715173, AA482928, AA209208, AA774098, AW372037, AL049569, AC004962, U82828, Z97054, Z84466, AC004087, AC007684, AC006312, AL022323, AC005971, AL034420, AL021154, AC003108, AC007298, AC002477, AC005227, AC003003, AL031663, AC007160, AF001549, AF109907, AL049843, AC005280, AC004520, Z97353, AC005399, AP000213, AC004222, AC002549, AC007685, AP000135, AL117258, Z98949, AC005914, Z95115, AC005529, AC004554, AP000031, AC006116, AC002302, AC006077, AC005324, AL133245, AC006006, AC005618, U96409, Z82206, AC006210, AC006195, AC004884, AC005235, AC007686, AL034429, AC002349,

					Accession numbers
HCWDS40	981	523301	1 - 427	15 - 441	AC003035, AC005661, AC005921, AL021918, AC005531, AL035455, AP000697, AC007016, AL049589, AC005562, AC006033, AC002366, Z85996, AC007308, AL050341, U91321, AC003042, AC005694, AL021396, AL031666, AC005901, AC007242, AF067844, AL022315, AF111168, AC002544, AC005519, AC005480, AB020878, AL121852, AC007386, AC004796, AC004811, AC005722, AP000354, AF009263, AF001548, AL136504, AC002040, AC007263, AC002364, AL034395, AC004655, AC005778, AC006012, AC005548, AL035405, AB023048, AC009044, AC002365, AC002123, AC004167, AC005822, AC002426, AC007226, AC004938, AC004912, AC007182, AC004638, AC007688, U91318, AC004966, AL132987, AL109984, AC006480, AC005015, AC005069, AC0062l'1, AL022721, Z93930, AC010206, AC004605, AL035683, AC002542, AC005069, AC002044, AC006057, AC004106, AL109963, AC003037, AC005191, AC007537, AC002369, AC002400, Y18000, AC005105, AL122023, Z77249, AC002558, Z84484, AC006474, AP000170, AP000055, AP000123, AC007388, AC007676, Z82190, AC002431, AL031577, AC005102, AF031076, AC005409, AC007225, AC005070, AL033527, AC005972, AC002470, AC004828, AL035587, AL023553, AL033376, AC006115, AC004595, AC006544, AC007376, AP000313, AL133371, AC005940, AC004883, AP000194, AP000109, AP000117, AC000134, AL008582, AP000088, AL035106, AC005839, AL022316, AC008008, AC005332, AC004996, AP000044, AP000112, AC005037, AC005844, Z99496, AP000050, AL049759, AC007510, AL117355, AL049765, AL031055, AJ003147, AC002350, AF031078, AP000500, AC003684, AC007731, AF030876, AL049839, AC006571, AL109628, AC005500, Z98050, AC005902, AL031311, Z95331, AL024507, AC007546, AP000493, AF020503, AC008170, AC002492, AC008125, AC002563, Z98036, AC006111, AL035398, U95743, AL080243, AC008064, Z83819, AP000694, AC004893, AC003030, and AC004560.
HCWDS41	982	669754	1 - 352	15 - 366	AA093224, N89520, and AF045432.
HCWDS48	983	861849	1 - 425	15 - 439	AI937612, AA729747, AW081591, T57592, and AC005261.
HCWDS52	984	771881	1 - 343	15 - 357	AI049996, AI538540, R94288, AA365586, AI952900, AC004253, AC005529, AC004686, AC002351, AC005722, AC009178, AL049709, AJ003147, L44140, AC005231, AC005071, AL135744, AC007676, AC004895, Z99716, AC008372, AC002126, AC000120, AC006241, AC005527, U48696, AC005841, AC006486, AC002316, AC004024, AL121852, AC006023, AC005703, Z68324, AL031767, AL031848, AC005781, AC006538, AC006084, AC006285, AL080243, AC004820, AL035413, AL133448, Z93023, AP000552, AL022721, AF196779, AC009464, AL050307, AC005348, AC004623, AL109799, AC004067, AC004887, AL034420, AL117694, AP000688, AC004890, AC011311, AP000513, AC007225, AC002477, AC007376, AL031680, AC016025, AF196969, AE133249, AC004526, AC002073, AC004263, AL021578, Z85987, AC002365, and AC007686.
HCWDS55	985	861943	1 - 441	15 - 455	
HCWDS59	986	934914	1 - 417	15 - 431	N83993, N83168, AC004924, and AF045432.

HCWDS61	987	741992	1 - 394	15 - 408	
HCWDS83	988	612257	1 - 480	15 - 494	AA406404, AW405796, AA233053, AI741861, H67245, AA292217, AI301933, R69395, H43955, AA625270, AA371992, AI033494, N42102, AW025130, AA010129, AI870802, R48046, AI799541, H26714, AI304348, AI017809, AI310484, AA056473, AI220164, AA234535, AI208430, AI470071, AI560756, H81562, H26715, AI131097, AA232686, and AC004258.
HCWDS91	989	557931	1 - 431	15 - 445	N88601, AA247964, N88782, AA095359, H58760, N83168, N89520, N84855, N83991, AA247827, N83992, AA096046, N84048, S78798, AF103726, U48696, AF045432, AF039698, AF102850, and AR066487.
HCWDS94	990	959650	1 - 417	15 - 431	AC005940.
HCWDT12	991	573487	1 - 368	15 - 382	
HCWDT84	992	542238	1 - 320	15 - 334	
HCWDV17	993	974478	1 - 684	15 - 698	N88601, N84855, N89520, N83992, AA095359, AA247827, AA247964, N84048, N83991, AA096046, N83168, N88782, H58760, AA093224, N84718, N83993, AA095641, AA096066, N86694, N84712, AA471338, N55698, N88518, N84830, N84829, AA215908, AF045432, AF103726, S78798, AR066487, AF039698, AF102850, U48696, AF032922, AJ243486, and U39066.
HCWDV82	994	529210	1 - 124	15 - 138	AL132712.
HCWDW05	995	852997	1 - 332	15 - 346	N57782, AW157128, AI038029, AA129000, AI061313, AA349923, AI520984, AI174489, AI828721, AI285651, R79396, AW192002, AW337817, AA533660, M77964, AW021674, AA557945, AA364147, AA135761, AA018258, AW021847, AI572680, AW069110, AI370470, N80469, AI308529, N55076, AA610644, AA205931, AA579417, H24331, F17312, AA526659, AI345256, AI708565, AI307563, N99564, H52795, AI003391, AA828840, AA730530, H59856, AA526658, AI003068, AW020682, AI684999, AI760850, AA218684, AA084320, AI567676, AA676462, AA084148, AW028376, H53373, AI124558, AW341878, AA598497, R87909, AA053463, R86876, AI570067, T59937, AA468923, R88475, AA083850, AW069769, AA372646, AA632869, AA293809, H81012, AA411337, AJ884404, F04021, AA613765, AI926876, AA015948, AA658443, AA748071, F24745, AW243864, H57065, AL044566, N25281, N55296, AA227713, AA369465, AA640305, H05066, AC004983, AC005234, AC003102, AL079342, AFI11168, AD000671, K03021, AL031291, AL022318, AP000691, AC005031, AC005046, L47222, AC005331, AC004999, Z98200, AL133448, AL049540, AC006088, AC005839, I34294, AC005412, AL121655, AC005332, Z97630, AL121825, AC007537, AC006953, AC005180, AL080243, AL035071, Z84488, AC005837, AC002369, AL035587, AC005089, AC007055, U85195, AP000692, L47229, AC006946, AC004491, AC005081, AC006116, AE000658, AC005329, Z94161, AC002310, AC005102, AC004099, AC007051, AC005755, AC005696, AC006277, AC007919, AP000689, AC005355, AC005666, AC007546, AC005051, AC005768, AC005011, AC002312, AL034548, AL050321, L47227, AL135744, AC005682, AC007676, AC012627, AC005300, AB001523, AC000379, AC000039, AC006538, AC006251.

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HCWDW08	996	861936	1 - 372	15 - 386	AB003151, AL049759, L44140, AC000070, AF196779, AC000082, AL049694, AC004859, Z81364, AC005921, AL049757, Z95114, U91323, AL078584, AC006449, AC006443, AL121653, AC000159, AC005828, AC004765, AL021407, AL031286, D28126, AC006079, AL022163, AP000260, Z98946, AP000210, AP000132, AP000213, AC006942, Z93024, AL021877, AC007536, AL096701, AP000555, U07562, AL022315, AJ246003, AP000135, AL035086, AP000099, U80017, AL133163, L78810, AC003098, AC005971, AP000356, AC002492, AP000036, AC005231, AL050318, AL049872, AP000248, AC005800, AC005821, AL022326, AP000031, AL033533, AC005280, AC004019, AC005484, AL049869, AL031229, AC002381, AC008041, AF001549, AC003957, AL109798, AC007371, AC006040, AL031255, AF045555, AC006006, AC002045, AF015416, AC002553, AL121658, AL035460, AP000557, AL020997, AC006075, AC004997, AL031774, AL031737, U91326, Z69705, Z83844, AC002039, AP000317, AC003665, AP000051, AP000119, AP000166, AL008719, AC004000, AC004150, AL031589, AP000500, AC008372, AC002470, AC006509, AL022302, AC002094, AL034420, AL009179, AC004650, AL022316, AC004985, AC004893, AC000025, AP000553, AC004754, AP000365, AL023799, AF196969, AC007421, AL024508, AC005585, AP000547, AC002464, AC006222, AC006468, AC004953, AC003083, AL139054, AC005606, AL049781, U95739, AL021453, AL121769, AC005200, AC005527, AL024498, AC005323, U95742, AP001052, AC004895, AC001228, AC005520, AC004659, AC002565, AC004703, AC002543, AC004975, AL022165, AL109984, AC004673, AP000152, AC000388, AC004263, AC009516, AL049553, and AC004973.
HCWDW13	997	523236	1 - 344	15 - 358	AC011625.
HCWDW17	998	849938	1 - 294	15 - 308	
HCWDW29	999	849939	1 - 223	15 - 237	H05821, AI821975, AI022708, R98591, AC003662, AC004966, Z99128, AC005510, AC004859, AL079342, AC005067, AL031577, AC007425, U62317, AC004686, AL049631, AP001040, AC006014, AB023051, AP000512, Z74739, AC003109, AC004834, AL022238, AC009509, AC005488, AC000026, AC002059, AC000039, AF134471, AC005874, AF134471, AC005737, AC010205, AC005476, AC002045, AC000039, AC004750, U95740, Z83845, AC002551, AC005015, and AP000496.
HCWDW33	1000	573554	1 - 333	15 - 347	
HCWDW42	1001	462405	1 - 533	15 - 547	AA828984, AA365347, N43757, AA450199, AI921649, AJ376100, AW074059, AI356904, AI922654, AI564284, C18357, C18360, AA658235, N53150, AA100489, T28550, AI956124, AI453383, AA593060, AA428414, AA192337, F26152, AI570138, AA829106, AA776936, AA828704, AA776921, T16592, AA584749, M86058, AA228329, AA653964, AA328591, AA303261, AA353595, AA723017, F24284, N59782, AA320748, AI371429, W07032, AA703692, AA397572, AI372413, AI758582, AI364809, AA176924, AA927637, AI340453, AA558656, AI561335, AA372875, AI061334, AI053672, AI334443, AA919037, AA196020, AI349874,

HCWDW43	1002	714423	1 - 345	15 - 359	
					C16624, AW117750, AI688846, AI921188, AW303876, AI963720, AA528516, AL046409, AI344844, AC007848, AC004712, AL121603, AC006277, M62424, AR025392, AP000352, U96409, AL033381, AC004066, AL109799, Z84718, AL136295, X03272, AP000496, AC004862, U63721, AP000134, AP000212, AF107885, AC005866, U66059, L78833, AC004941, AP000350, AF131217, AC003983, AP000351, AL121934, AC006333, Z99774, AP000692, AC004592, Z92540, AC008115, L49046, AC005887, AC004992, AC003966, AC005618, AL022329, AC007536, X78901, AC006538, AL021918, AC006241, U47924, AC004802, AC006120, AL096862, Z84474, AL109984, AC005856, U95740, AC007263, AL022323, AP000356, AL031733, AC004638, AC003112, AL049613, AP000512, AL022318, AL079340, AL049757, AC004933, AC005696, AP000034, AC004741, AC007435, AC005690, AL020993, AL009031, AC002326, AC005940, AC006007, AL133382, AL035681, AL121591, AC007285, AL008629, AL031255, AF023268, AC006146, AL035460, AC006462, AL049776, X53548, AC005625, AP000252, AC006077, AL049610, AC004542, AP000031, AL139054, AP001053, AC006285, AC007680, AL035071, AL133485, AC009516, AL109657, Z99496, AC008134, AC003035, U07977, AL121915, AC004804, AP000553, AC002508, AC016026, AL049712, AL021155, AC004010, AP000354, AC003050, AC005231, AC006511, AP000552, AP000230, AP000144, AC004895, AC020663, AC000353, AC007707, AC008173, Z86062, AP000555, AC006211, AL049766, AC004948, AC005911, AC003977, AL049759, AC004168, AC006449, AL132987, AL031276, AC005284, AF190465, AC002425, AC004468, AC004383, AC002544, AL035361, AC005998, AC000003, AF023460, AC004659, AF015153, AC004087, AL021877, AL023284, AC004650, AC005703, AF108083, AC002364, AC006001, AC006157, AC005486, AF165926, and AL133245.
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HCWDW57	1003	927656	1 - 235	15 - 249	
HCWDW61	1004	574859	1 - 351	15 - 365	AC004961.
HCWDW62	1005	849960	1 - 586	15 - 600	N83991.
HCWDW73	1006	861934	1 - 373	15 - 387	AA341865, AA363003, N40092, AI819262, AI061303, T30418, AJ372604, AA322542, AW169038, H53217, AA078184, AA668166, T97322, AA572753, AA455205, AI359200, AA626840, AA515254, AI188049, AI270647, AA010973, AA420801, AL048275, AW247389, AA683091, AA350406, F00564, R95840, AA215585, AL079869, R49266, AA047849, N47855, AW327852, N52323, AA078137, N33851, AA713714, N72170, AF034180, AA470567, H60249, AI678581, H78898, H67649, AW068580, AA513884, AC003980, AC006241, AL031680, AC004552, Z93017, AC004805, AC002425, AC005069, AC005546, AC007011, AL109613, AC005632, Y14768, AC006254, AC007216, AC005920, AC005335, AC006312, AP000505, AC002073, AC007386, AC002352, AF196969, AF109907, AP000345, AL096701, AP000346, AL031846, AL031597, AC002400, AC003013, AC002398, AL049780, AL024508, AC005829, AC005089, Z99716, AL031662, AL136295, Z93930, AC004500, AP000359, AL080242, AL133312, AL024498, AC007388, AC006565, AL008718, AC005399, AC007276, AC005578, AC004895, AC011311, AP000696, AC004796, AC004491, AC006141, AC005231, AL031577.

HCWDW74	1007	952698	1 - 421	15 - 435	Z83847, AC005189, AC005015, AF200465, AC000085, AC005598, AC006075, AC007358, AL031602, AC005280, U15177, AC004843, AC004849, AL096703, AC001231, Z82194, AC005822, AC006080, AC005954, AP000065, AC004263, AC007686, AC006153, AL121769, AC004531, AC007066, AC007263, AC005004, AL049760, AC005940, AC000159, AC006299, AC006480, AC004821, AC004477, AL121658, AC005722, AC003026, AC007227, and AF196779.
HCWDW78	1008	773698	1 - 336	15 - 350	
HCWDW90	1009	529233	1 - 301	15 - 315	
HCWDW93	1010	574155	1 - 401	15 - 415	AL137740, and AF198488.
HCWDW94	1011	753166	1 - 942	15 - 956	
HCWDW96	1012	975401	1 - 52	15 - 66	
HCWDX19	1013	523233	1 - 447	15 - 461	
HCWDX22	1014	967361	1 - 415	15 - 429	
HCWDX36	1015	861932	1 - 366	15 - 380	AI022659, AI248903, R16508, AL036251, AJ688963, AI537814, AC005015, AC006512, AC000120, AF173228, AF053356, AC000119, AL096701, AP000558, AC007263, AC005519, AC002301, U47924, AC005902, AC004491, AL022316, AC005081, and AF003626.
HCWDX39	1016	573574	1 - 332	15 - 346	
HCWDX52	1017	661568	1 - 535	15 - 549	AW339619, AW169183, AI797998, AA595661, W85818, AL042667, AL042670, AL039117, AI744963, AA489390, AI732596, AI439525, AI251696, AA132947, AA748071, AW057760, AI732563, AA180056, AW265468, AW272815, AI174703, AI285651, AI049999, AI473671, AI250552, AW072963, AI254508, AA664963, AI251284, AI251203, AA564256, N70293, AA729004, AI251034, AI310670, AW409626, AI523205, C14614, AA814719, AA133568, AA598608, AI679486, AI869797, AI284543, AA599712, AA995373, AI224583, AA814503, AA639155, AI088903, AW273201, AW273146, AA425283, T03928, AW303098, AI308529, AA584484, AAS03018, AA157876, AW086291, AI690379, AW020094, AW410844, N27340, AA324108, AI254770, AW409621, AA648605, AW069273, AI254267, U85195, AE000658, AC004263, Z99291, AP000510, AC002312, AC005837, AL009181, AC004587, AL109827, AL034420, AL139054, AF196779, AC005154, AL031293, AC002477, AC007384, AC004196, AB023048, AC006162, Z98036, AC006011, AC005740, AC002302, AC009516, AC005215, AL133163, AC005228, Z98051, AC007216, AC003029, AL133448, AC004973, AL121652, AL031311, AL135744, AC002314, AC004634, AC005829, Z95114, AC007240, AL022165, AC005913, AC005355, AC002996, AL008582, AC006285, AC005225, AL022334, AL109952, Z84469, AC004522, AL049569, AL035086, AF196969, AC005839, AC003665, AC004929, AP000355, AC010205, AL096791, AC005330, AC004876, AP000252, AC005231, U47924, AC004887, AL034421, AC005257, AP000356,

HCWDX65	1018	920877	1 - 340	15 - 354	Z86090, Z98742, AC006449, AL022316, D87675, AC002350, AC007226, AF109907, AC009247, AL031281, AP000008, AP000031, Z97630, AC007227, AP000691, AC002310, AC005202, Z85986, AL109628, AL022313, AP000503, AC016025, AC002369, U80017, AP000359, AL022336, AL096702, AC005911, AC003682, Y18000, AL049830, AC003982, AC000355, AC000379, AC005081, AC005015, Z98941, AL050317, AL096774, AC006013, X69907, AL135879, AL121790, AL096701, AC007011, AP000065, U52111, AC006057, AC004106, Z85987, Z94865, AC012330, AF165926, AC004874, AC004755, AC006241, AC009399, AC006538, AF205588, U78027, AC004765, AC004668, U95742, AC004520, Z96074, AL132992, AL022238, AP000248, AC004771, AC002544, AC008018, AC005722, AC005546, AL034429, L78833, AC004859, AC005049, AL035659, AL035684, AC004491, AP000257, AC004835, AL031680, AC004922, AL021918, AC004881, AC004686, AC006479, AJ246003, M89651, AL049757, AC005519, AC005527, AC003112, AC002425, AC002306, AP000704, AC005500, AC005779, Z93930, AL031276, AP000553, AL035422, AC004019, AC004815, AC007066, AC005377, AC004253, AC006121, AC002126, AC004647, AC005914, AC004584, AC004804, AP000152, Z95703, Z83844, AF196971, AC005800, AC006441, AC005058, AC008008, AC006084, AC005670, AF111169, AC004033, AC007731, AC004975, AC005730, AF129756, AC004386, AF134726, Z95115, AC003110, AC005726, AC000052, AL009172, AL022323, AC003010, AC005288, AC004858, AC005932, AC008044, AL020993, AC003101, AL080243, AP000511, Z69890, Z93017, AC007546, AC007934, AL031666, AP000689, AC007151, AC007298, Z99128, AC005821, AC005666, AC007421, AC002377, AC006581, AB025285, AL021406, AL121603, AL049697, and AL031584.
HCWDX76	1019	932614	1 - 226	15 - 240	AL031296.
HCWDX85	1020	861933	1 - 330	15 - 344	AA081685.
HCWDY47	1021	573557	1 - 303	15 - 317	T27308, and AA187085.
HCWDZ13	1022	657398	1 - 383	15 - 397	
HCWDZ89	1023	576697	1 - 203	15 - 217	
HCWEA30	1024	681277	1 - 396	15 - 410	AL079734, AA581247, AA452887, AI912401, AA614163, AA182731, AA559241, AW151247, AA084609, H53217, N72170, AA228349, AI146750, AW188742, F00564, AL048275, AL038842, R95840, H66577, AA713705, AA470567, AI251429, H60249, N33611, T74524, AI289505, AI635440, AA654874, AA581471, AW237905, AI742168, AA228338, AA297666, AW008169, AA181917, AI249688, AA666295, AA601674, AA502991, AA481887, AA326034, AA570255, H63660, AL109827, AC007546, M37468, U47924, AC004230, AL109758, AC007226, AC004813, AC005379, AC004217, U91326, AC004150, AC006538, AC005924, AC005746, AC005212, AC004841, AC005399, U96629, AC009263, AC005332, AF003626, AC008072, AC007285, AL049643, AC005911, AP000502, AL135744, AC005288, AC004876, AL035697, AL136295, AF030453, AL109963, AF196779, AP000065, AF196779, AC007277, AC004878, Z83822, AC005067,

HCWEA65	1025	849918	1 - 214	15 - 228	AF196969, AL109984, AF134726, AC005088, AB023049, AC010582, AL034429, AC003037, AL133448, AC006071, AC004638, AC005952, AC004686, AC005412, AC003036, AC004913, AP000245, AF165926, AL024498, AC007308, AC003963, AL050308, AC005587, AC004895, AC005004, AC006543, AC004890, AC006480, AL080243, AL031774, AC004787, AB017602, AL079342, AF129756, AC002300, AC002347, AC002996, AC005844, AC006441, AL030996, AC005670, AL035072, Z82243, AC005105, AC003962, AP000512, AC006530, AC005386, AL035422, AF031078, AC005913, AL035455, AC000111, L44140, Y14768, AF030876, AL031584, AC004448, Z82214, AC004491, AC006544, AL031680, AC007664, AC005529, AC007774, AC005484, AP000505, AC002476, AC005914, AC004079, AC005377, U91321, AC002470, AC002120, U78027, AC002994, AC006001, AL050341, AF088219, AC005015, AL139054, AL049838, AC006512, AC004475, AC002301, AL035457, AP000359, Y07848, AL008718, AP000699, AL021453, AC005562, AL133485, AC004019, AL109627, AL021707, AL035415, AL078638, AL049869, AC004760, AL121603, AC005619, AC007151, AC005796, AC004030, AL049872, AL022320, AC007240, D87009, AC005666, AL035249, AL035683, AC002350, AP000045, AP000113, AC007055, AC004967, AC006241, AC004675, X68793, AP000553, AC006271, AC010077, AL050332, Z83844, AC005480, Z98200, AC004263, AC005102, AC007386, AL034549, AP000694, AC007227, AC004859, AL023581, U95742, AC004854, AP000466, Z93244, AC005527, AC006064, AC000052, Z96243, AC005358, AC006254, AC002563, AC006132, AL035932, AL035658, AC002352, AC007999, AC009516, AL078581, AL035587, AL022318, Z98048, AF104455, AC002314, AC020663, AC004821, AF196970, AC005632, Z83840, AL049780, AC007216, AC004893, AC002126, AC006080, AL109799, AC004703, AC003110, and AC005954.
HCWEA77	1026	666180	1 - 359	15 - 373	AC009405.
HCWEA78	1027	697596	1 - 295	15 - 309	
HCWEA82	1028	719028	1 - 356	15 - 370	AC006026.
HCWEA84	1029	506718	1 - 331	15 - 345	
HCWEA86	1030	574858	1 - 339	15 - 353	
HCWEB11	1031	975408	1 - 65	15 - 79	
HCWEB25	1032	925102	1 - 389	15 - 403	
HCWEB28	1033	932114	1 - 341	15 - 355	AL139054, AC004408, AL031427, AC006285, and AL078581.
HCWEB33	1034	925286	1 - 352	15 - 366	
HCWEB37	1035	849854	1 - 411	15 - 425	
HCWEB40	1036	514584	1 - 488	15 - 502	AL046409, AL079645, AJ732151, AI754955, AIS87583, AI061313, AL120343, AI431303, AI755214, AI754567, AA651639, AW265385, AI244127, AI754105, AW069227, AI254779, AL044858, AAS74442, AA284247, AJ754653, AW020088, AL042635, AW301350, AW303196, AJ919265, AI281881, AAS27602, AW162288, H07953, H05940, AW275432, AW274349.

AI590906, AI799642, AI188390, AI311647, AI053784, AW328331, AL040054, AW023111,
AI679782, AA833875, AA833896, AI732764, AW327624, AI792529, AA644090, AI587565,
AW157005, F13749, AL119838, AI696793, AA581903, F35374, AA600202, AI358089,
AW162049, AW073470, AI929531, AI054193, AA657835, AA676592, AI885483, AL042856,
AI654247, AW020992, AW069783, AI028510, AW004911, AW068996, AA829036, AI926728,
AI912401, AA501784, AAS33042, AW029038, T74524, AI821486, AI537020, AI216998,
AI064864, AL138455, AI754023, AW304805, AA992126, AI821814, AA610509, AA226584,
AA846935, T50676, AL042373, AW270385, F27015, AA773463, AA809546, AW410354,
AA492495, AI339850, AI368745, AI801505, AW088202, AW328446, AC005256, AL049869,
Z95115, AC007774, U29953, AC004531, AC005089, AC007487, AC007687, AL035587,
AC005037, AC006511, Z85986, AL096791, AL022328, AC012627, AC005207, AF050154,
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U91325, Z98743, AC006251, AC007536, Z84480, Z98200, Z99943, AC007030, AL022313,
AC005095, AC008115, AF015156, AC007676, AL096701, AC005581, AL023575, AC007227,
U78027, Z95152, AC004859, AC007216, AC006449, AL035422, AC004797, AC005695,
AL049636, AC003070, AC002425, U96629, AC005224, AC004455, AL049643, AF075098,
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AC005722, AC004832, Z82182, AC005520, AJ006996, AL049539, AC003108, AL133246,
U95742, AC005180, AC005943, AC004770, AL034371, AC004685, Z97056, AC006121,
AP000065, AC005592, AP000210, AP000132, AL031282, AP000350, AC004596, AL024509,
AL117694, AC004099, AC004098, AL034548, AL024474, AC007688, AF015151, AC004263,
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AL008726, AC009516, AC005209, AP000466, Y14768, AL049776, AC006241, AC005808,
Z84487, AL021397, AF196779, AF053356, Z82244, AF207550, AP000503, AC004559,
AC000353, AC005332, AC006120, AL031650, AC002119, AC004638, AL050318, AL109627,
AP000505, AP000359, AP000553, AC006512, AC005057, AC005736, U85195, AC006509,
AC006077, Z98742, AF134726, AL132796, AL049766, AC005519, AC005360, AC006277,
AC005015, AC006071, AL009181, AC005901, U47924, Z98883, AP000086, AP000496, U41384,
AL133243, AL022323, AL078634, AC002314, Y18000, U62293, AC004253, AC004887,
AL022326, AC002400, AC006273, AE000658, AL049576, AL031003, AP000008, AP000114,
AP000046, AC005291, AC004858, AC000026, AL121603, AC006312, AF146191, AL050321,
AP000152, AC005031, AP000555, AF190465, AC004765, AC006064, AL050307, AP000356,
AC006530, AC006952, AL049650, Z93241, AF196969, AC005179, AL121658, U18399,
AC022059, AC002563, AC006230, AC006372, AL031685, AC004106, AC002553, AC003982.

					AC007136, AL121748, and AL031279.
HCWEB56	1037	527051	1 - 534	15 - 548	
HCWEB71	1038	573147	1 - 423	15 - 437	AW362435.
HCWED11	1039	948689	1 - 429	15 - 443	AA724231, AW021007, AA278496, AI624379, AI439676, AA565911, AA837771, W63553, AL041613, AA569734, T03928, AW242279, T40210, AA354507, AI624234, AA864815, AL119563, AA740736, AA493784, AI459866, AI018726, AA507990, AA557945, F29968, AC010202, AL049553, AL031279, AC004104, AL034553, AL117694, AC007011, AL109627, AL096712, Z95152, AC006312, AL031283, Z93241, AC005243, AL031674, Z82215, AL096775, U24498, L39891, AL035681, AL035405, AL035683, AC005256, AC006146, Z85996, Z82179, AC005747, AC003950, AL031846, AC005821, AL135783, AC008041, AL079342, AC002430, AC003692, AC005519, AF196969, AC001644, AL021937, AC007510, AC004816, AC005358, AC002316, Z99774, U91323, AC007384, AC000025, AF139813, AC005089, AC002375, AC002978, AL049759, AL023807, AL035249, AC004228, Z95115, AF196971, AC004084, AC005696, AL034384, AC002395, Z82194, AC005632, Z83844, AP000355, AC002073, AP000359, AC005529, AC005919, AC005624, AC005600, AC004491, AL009181, AC006343, AC010205, AL031848, AC004961, AC005578, AC004953, D88268, AF001552, AL034429, AC002094, AC004552, AL049743, AC004889, Z97056, AC005940, AC008119, AL031666, Z82182, AL078463, AL050318, AC005156, AL021940, AC004687, AR036572, U91228, Z84484, AC005565, AC005244, AC005793, AC004125, AC007371, AC007057, AL049872, U52112, AF109907, AC004799, AP000346, AL022721, AF035397, AF003627, AC005509, AC006441, AL031228, AC005379, AC004025, AC005335, AC007537, AC003010, AL008583, AL109956, U82696, AC005332, AL031985, U12387, AC005841, U95740, U30518, AL031729, AF037338, U95743, AC004771, AL109657, AC012384, AC006316, AC009336, AP000501, AL133500, AP001063, AC004770, AC005538, Z85987, AC006486, and Z82190.
HCWED13	1040	573413	1 - 450	15 - 464	
HCWED61	1041	971865	1 - 469	15 - 483	AA995856, AI672210, T99719, AW148336, AI791144, AW440956, AW439999, AA907133, T05187, AI000677, AI678727, AA586390, AA767864, AA285156, H52303, AA018440, AI660071, AI270092, H91317, AA490072, AI798234, AC004876, AP000302, AL024498, AC005525, AL031280, AC003964, AP000046, AP000114, Z93241, AC005585, Z85997, AC007050, AF196970, AC000072, AF121781, AC006238, L77569, AC002302, AL050402, AC004623, AC005609, AF059321, AC007371, L13972, AC002563, AL022336, AL023878, AC005182, AP000501, AL034408, AC005067, AL050309, AC005358, AL035249, AC004703, AC006137, AF155238, AC007406, AC007955, AL133500, AC006270, AC005015, and AC004230.
HCWEE02	1042	920544	1 - 254	15 - 268	
HCWEE03	1043	924743	1 - 536	15 - 550	AA960780, and AC004542.
HCWEE07	1044	953731	1 - 398	15 - 412	

HCWEE22	1045	572960	1-338	15-352	
HCWEE74	1046	738264	1-305	15-319	
HCWEE76	1047	770169	1-277	15-291	
HCWEE83	1048	781302	1-213	15-227	
HCWEF56	1049	573570	1-449	15-463	
HCWEF91	1050	849919	1-281	15-295	
HCWEF92	1051	573568	1-350	15-364	
HCWEF95	1052	526766	1-422	15-436	
HCWEG09	1053	523251	1-329	15-343	
HCWEG23	1054	531421	1-395	15-409	
HCWEG31	1055	693687	1-400	15-414	AP000323, AP000053, AP000121, and AP000168.
HCWEG47	1056	574191	1-355	15-369	
HCWEG51	1057	964642	1-290	15-304	AI828787, AC004983, AC004967, and AC006101.
HCWEG69	1058	948693	1-234	15-248	
HCWEG70	1059	881254	1-431	15-445	H30197, H79077, R79607, R81361, W15301, AI141202, AA176978, R18372, AA570224, R02744, AW029277, AA579368, AA492524, AA493628, R94876, AA831826, H72049, H73336, AW117723, AW117704, AI652371, AI312527, AC005940, AL022323, AC004912, AL117354, AC006139, AC009028, AC008009, AP000514, AC004638, AF001548, AP000701, AC004687, J00081, AC004854, AC000046, AC007014, AC007182, and AL035691.
HCWEG86	1060	572980	1-357	15-371	
HCWEH27	1061	527050	1-391	15-405	AF077000.
HCWEH53	1062	967056	1-429	15-443	
HCWEH76	1063	574187	1-319	15-333	AA808851, AA650159, and AA654653.
HCWEH93	1064	933146	1-314	15-328	
HCWEH94	1065	667919	1-744	15-758	AI733856, AW069227, AA410788, AW340905, AI625604, AW021917, AW068596, AA916430, AI687343, AA574442, AA847704, AW328331, AI890324, AA643770, AI963720, AA833875, AA833896, AW237905, AW117740, AI669589, AW084445, AA610509, AI634187, AA669155, AL079734, AL046409, AA502991, AI679759, AI061313, AI753488, AI926728, AL079645, AA468505, AA535216, AW328000, AI345681, AW023111, AA847499, AA579179, AI345675, AI284640, AW029515, AL040374, AI457313, AA719073, AI817230, AI583142, AW438542, AL040054, AI040051, AW303196, AI590442, AA644090, AW021583, AI613280, AW069769, AA904211, AA702637, AI431303, AA602906, AW301350, AI345695, AI254779, AI732483, AI282479, AA297145, AA630854, AA714011, AW193265, AA228778, AW419262, AI587583, AI587565, AL135377, AI753113, AW327868, AL138455, AA224889, AL119691, AA665330, AI270117, AA455483, AA127426, AI247101, AL037632, AI923050, AI566408, AW023672, AI613389, AA904275, AI679294, AI891080, AL138265, AI267356, AI859438, AI732865.

AI281730, AI431513, AW327624, AI251576, AA053463, AI244127, AL042753, AI284543,
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AAS26542, AA668455, AW270385, AI336054, AI250552, AA483606, AI361090, AL047349,
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AP000125, AC005529, AC004675, Z98946, AL121576, AF088219, AP000513, AL049557,
AL049795, U95740, AC005229, AP000688, AL022326, AC002369, AL031311, AC005701,
AL022237, AC009248, AL080243, AC005696, AC002316, AC002126, ALI17351, Z93930,
AC005746, AL121653, AC004962, AC005519, AL023575, AC005837, AL022163, X14448,
AC007308, AC007225, AC006312, AC003043, AC006057, AF053356, AL021368, AP000555,
AC005722, AC004821, AC004644, AC005903, AC006479, AL133382, U91323, AC007666,
AC005695, AC004477, AP000505, AC006138, Z95116, AC002463, AF207550, Z84487, Y14768,
AC005829, Z97054, AC006274, AC000115, AC009946, AL030996, AL049758, AC007277,
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AC005822, AC004832, L44140, AL031291, AC004084, AC005600, AC003104, AL035455,
AC004778, AL022320, AL034420, AB017602, AC005060, AJ011930, AL035071, AL139054,
AF129756, AP000228, AC004030, AC005899, AC007546, AC005856, AL109801, AC007536,
AC004841, AC005726, AL133289, AC007842, Z98742, AC004674, AC002991, AC005913,
AF196779, AF015156, AP000140, Z84572, AC011504, AP000359, U95742, Z95114, AL135960,
AJ131016, AP000343, AC008372, U07563, AC007686, AL034429, AC004967, L39891, AC005280,
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AC007216, Z97989, AJ009610, AC005821, AC005088, AC005081, AF165147, AC005412, AL021367, AB003151,
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AC005071, AP000088, AL133245, AC005619, AL050318, AL096701, AC004659, AC006050, AL096776,
AC005777, AL133245, AP000692, AL023577, Z82188, AC003690, AL096757, AC002350,
AC006208, AL022721, AD000813, AC004463, AC005776, AC004106, AC000052, AC004960,
AC004061, AC005531, AL034449, AC004686, AL031846, L47234, AL031680, L11910,
AC004985, AJ010597, AP000501, AC011604, AL136295, AL031432, AC004542, AL109758,
AC004663, M89651, AL049588, U91326, Z98200, AC006064, AC003663, AF111168, AL022318,
AL035684, AC008101, AL031848, AC007228, AL022328, AL033397, AC005300, AF015148,
AC007312, AC004858, AC002544, Z97196, AC004019, AC005323, AL035405, AP000509,
AC006139, Z93020, AC005037, and AC006071.

HCWEI19	1066	1 - 297	15 - 311	
HCWEI30	1067	1 - 259	15 - 273	
HCWEI43	1068	1 - 409	15 - 423	AC004950.
HCWEI45	1069	1 - 110	15 - 124	
HCWEI78	1070	1 - 338	15 - 352	
HCWEI80	1071	1 - 207	15 - 221	
HCWEI83	1072	1 - 287	15 - 301	AP000556, and AP000557.
HCWEI91	1073	1 - 516	15 - 530	
HCWEJ02	1074	1 - 449	15 - 463	
HCWEJ08	1075	1 - 424	15 - 438	
HCWEJ22	1076	1 - 490	15 - 504	
HCWEJ26	1077	1 - 377	15 - 391	AA065131, AW008791, AW009265, AI805884, and AA065200.
HCWEJ43	1078	1 - 319	15 - 333	
HCWEJ69	1079	1 - 244	15 - 258	AI479011, and AI538122.
HCWEJ91	1080	1 - 434	15 - 448	
HCWEK59	1081	1 - 331	15 - 345	
HCWEK74	1082	1 - 542	15 - 556	AA601043, AA069366, AC007685, AC007284, AC004491, and AC007510.
HCWEK80	1083	1 - 442	15 - 456	AP001052, and AP001053.
HCWEK84	1084	1 - 241	15 - 255	AA630672, AI818231, AW303008, AA780682, AA732253, AW103927, H25921, AA092310, H51061, AA345064, AA768389, AI254980, AA588001, AA629872, N74747, C15060, H12383, AA551181, AA370455, AI344995, H93097, AA380354, AL133909, AW341978, AL138182, AA570797, AA722225, AI570197, AA372346, AA568198, AW022655, AL047429, AI014843, AI923052, AA705687, AA037715, F01503, AA531580, AI590485, AI311519, AI537772, AA583466, AI439828, AA630535, AI002744, AL045808, AL046156, AA584125, N71685, AA282820, AI205010, AA491681, AI888261, AA338544, AI278972, AI537538, F13749, AI907530, AW081296, AL038498, AI923333, AA593375, H18298, AW151022, AA483108, AA502991, R65651, AL037052, AI499301, AW162288, AW196053, AI636730, AA298319, AW021627, AI349849, AA308716, AA330772, AW276396, AW078909, AW131272, AI251576, AA838227, AA903253, AA573131, AI056046, AA092571, AA037725, AA515457, AA575911, H40324, AW317027, AI366993, T71474, AI124933, AA613761, W01639, AI289941, AI289942, AI955697, AI494539, AA626432, T77680, AI249473, AA716211, AA702098, AW104793, H81840, AI889566, AL135576, C18550, AI298061, AL096817, AC005019, AP000013, AC005752, AC007308, AC004910, D86992, D88270, AL109628, AC004797, U85195, AE000658, U95740, AC004051, AC000070, AC002288, AL109798, AC003104, AB023049, AP000512, AC011311, AC003101, AL133246, AC008169, AF107885, AC004933, AC006080, U40401, AC004674, AC005694, AP000505, AC004070, AC004596, AC003087, AC005207, AL023883.

HCWEK89	1085	861914	1 - 245	15 - 259	AL023281, AC005250, AC007842, Z98050, Z99716, Y18000, AL031670, AP000245, AB020870, AC008082, AL132985, D87675, AF109907, AC006211, AC004620, AC004911, AL031391, AC003977, AC002395, AL021877, AC005066, AL133312, AL022722, AP000253, AC005039, AC006070, AP000959, Z95116, AC005529, AC009509, AL031985, AL031289, Z82194, AC004855, AC006441, AP000553, AL080317, AC004216, AL035086, AC004526, AC003950, AL031283, AF020503, AC007253, AC004548, AC006116, AC005048, AF003626, AC004655, AC004595, Z97352, AC003664, AC007536, AC009411, AP000213, AC005730, AP000135, AP000155, U91325, AC005324, AC004812, AL049647, U52112, Z83840, AC000004, AC004875, AC006322, AL109807, AC005324, AC004887, AP000031, AC002299, AC005874, AF134471, AC004985, AL009181, AC005037, AC004817, AL096794, AL049832, AC005500, AL049649, AC002528, AC004741, AL031286, AL031056, AL121603, AC006112, AC007406, AC004517, AC007688, AL049760, AF196972, AC005288, AF196779, AL035530, AL035467, AC012384, Z95152, AC002377, AL078583, AC004929, AC004033, AC005702, AC000389, AC003108, AL121653, AC007559, U82668, Z85996, AC005543, AC005578, AC010209, AC006930, AC006559, AC002563, AL031589, AC002041, AC004856, AC004815, AF088219, Z98946, AL034402, AC004455, AC008126, Z85987, AP000547, Z83844, AL034379, Z93016, AL021368, AL122023, AC003687, AF001549, AC005777, AL035398, AC006285, AC005234, AL035400, Z86061, AF205588, AP000036, AL079342, AC004858, AL078638, AC006313, AC006132, AL109801, AC004699, AL021978, AC006958, AC004622, AC000105, AF051976, AC002115, AL031259, Z84480, AL022326, AC002464, AC004087, AL034343, AC003682, AC007227, AL022323, AC000119, AC008039, AC004032, AL049856, AC005295, AP000244, AC008273, AC005043, AC000111, AC005412, AP000459, AL109613, AC003684, and AL022315.
HCWEL01	1086	916972	1 - 236	15 - 250	
HCWEL08	1087	881309	1 - 142	15 - 156	
HCWEL18	1088	827387	1 - 265	15 - 279	
HCWEL27	1089	572846	1 - 244	15 - 258	AC005399.
HCWEL47	1090	523304	1 - 545	15 - 559	
HCWEL52	1091	577417	1 - 449	15 - 463	
HCWEL55	1092	572951	1 - 310	15 - 324	AA694257, and N64736.
HCWEL96	1093	529223	1 - 328	15 - 342	AC004674.
HCWEM10	1094	968044	1 - 312	15 - 326	
HCWEM37	1095	573151	1 - 404	15 - 418	
HCWEM51	1096	920887	1 - 378	15 - 392	
HCWEN20	1097	529237	1 - 330	15 - 344	
HCWEN86	1098	573527	1 - 344	15 - 358	

HCWEP18	1099	913670	1 - 401	15 - 415	AW291681.
HCWEP34	1100	523238	1 - 436	15 - 450	
HCWEP39	1101	660232	1 - 459	15 - 473	
HCWEP40	1102	506759	1 - 278	15 - 292	F00112, K00650, AF111167, AC006064, AC007055, AC006312, AC004777, AP000023, AC005331, AL078472, AC004814, AC002347, AC007064, Z98048, AL034417, AL024507, AL024498, AC006548, AC004050, AC004934, AC005182, AC002546, AC002420, AC007790, AC006381, Z83840, AC005071, AF047825, AC005822, AC012627, Z82201, AC005944, AC005914, AL031005, Z84484, AL096791, AL031295, and AC006511.
HCWEP43	1103	921346	1 - 412	15 - 426	
HCWEQ01	1104	861910	1 - 288	15 - 302	
HCWEQ14	1105	908245	1 - 355	15 - 369	R16298, AA488261, R15246, AA325932, F08114, W46162, H08289, U69190, R12912, and AC002985.
HCWEQ15	1106	660520	1 - 285	15 - 299	AA583955, AAS26342, AA810078, AA219115, AA714453, AI872020, AA661921, AA610491, AA775207, AA503600, R40056, F04987, AI243584, AA316905, AI963720, AA877817, AW080134, AA782304, F18423, AA491284, AA601492, AA362698, AI696962, AIS61060, AAS31079, AI251436, AI061334, AW070892, AA847499, AA491814, AA664909, AAS81903, AA478355, AA259186, AI686267, AA808877, AI305766, AW270343, AL119691, AI344844, AAS01821, AAS15231, AA828042, AAS25824, R94721, AA468131, F18638, AA737150, AI247264, AI476312, F01314, AA364224, AAS02720, AA634889, AI307608, AAS33303, AW084252, AA715355, AW084198, T41259, AW196064, AI889923, AW276817, AA644551, AW265385, AW075511, AA935988, AIS89230, AI821271, AI358343, AW265009, AAS22642, AA372852, F23430, AI364809, AL038072, F19012, AI049634, AI247199, AW082492, AA623002, AI283911, AA320714, T74382, AA362348, AA653375, AAS21323, AA834727, AA805815, AA521399, AI284640, AAS43705, AW300625, AA362511, AA635067, AI623720, AA715255, AA715267, AA650376, AA078441, AW248819, AA934680, AA848134, AA749054, AA459749, AI635818, AAS08034, AAS02104, AI358431, AA662871, AAS15549, AI708009, AAS03154, AA604333, AA603185, F16127, F00440, AW089682, F17802, AA773902, AA604897, AA281461, AI702314, AA720746, AA320113, AI160117, AI064952, T07019, AW002350, AI270002, AI754336, AA678436, AW071163, AW023990, AL044940, AA493708, AI783494, AAS32524, AA338486, AA773733, AAS31186, AAS13141, AIS37944, AAS59290, AAS31372, AA493206, F00135, AA713626, AAS02866, AA346458, AAS03284, AI298710, AI245679, AA985455, T52733, AA478297, AI254316, AW274349, AIS61255, AL079511, AA847012, AI469624, AAS03119, AA664332, F16274, T06828, AW405114, AI860020, AA629992, AAS33725, AA482711, AI246119, AI459768, AI151261, Z30073, H93893, AI110688, AW327868, AA394271, AA688036, H60639, AA074130, AIS83283, F17555, AW150524, N62433, AA372481, AW075948, AAS02963, AAS14854, AI358236, AI355206, AI679045, AIS59251, AA491862, N35602, AA594145, H63262, AA908468, AI890348, AL045053, AP001172, AL022322,

HCWEQ27	1107	849860	1 - 406	15 - 420	AC006930, AC005520, AL022721, AL109617, AL033521, AC004686, AL021807, AP000502, AC007421, AC004544, AC008372, AC004638, AC005011, AF015155, AC005908, AC008126, U57007, Z99716, AC005694, AC008039, AC005484, AC008101, AP000555, AC006479, AL021407, AC005632, AC004263, AL031846, AF134726, AC005527, AC000004, AL049647, AP000513, AC004913, U82672, AC007685, AC006037, AF001549, AP000556, U91326, AC004876, AF038458, AL023575, AC005234, AE000658, AL034551, AC009044, AC007999, AF207550, AC005288, AC004894, AC005387, AC004675, Z49237, AC005081, AL049709, U85195, AC008079, AL109984, AC009330, AC002369, AC006539, AC005944, AC005191, AD000092, AF088219, AC005019, AF135027, AL049776, AL022323, AL132992, AC005529, AC002289, AC003957, AC004000, AP000553, AL031311, AL035587, AL008629, L78810, AC004030, AB023052, AL023581, AF064863, AP000692, AC003007, AL022476, AL132987, AJ003147, AC006538, AC004862, Z62833, AC004884, AC005037, AC007324, AC009233, AC002429, Z97352, AC006537, U91323, AC005046, AC006213, AL031005, AC004253, AC005768, AC002368, AP000350, AL049795, AF042090, AC006026, AC005280, AC005180, AC005839, AC004612, U95742, AC005544, AP000950, AP000265, AL023494, Z82198, AL109865, AL096774, AF109907, AL049696, AC007388, AC005488, AL117258, AC002094, AC005553, AL031685, AC002349, AC002300, AC005071, AL022724, AF196969, AC006511, Z82901, AC007879, AL021939, AC006285, AL020995, AP000432, AC006057, AP000568, Z98044, AC004491, AC004765, AC004673, AC002565, AP000349, AL033531, AP000034, AP000101, AL050332, AL021395, AC006064, AL133371, AC007243, AC005368, AL121934, AC004659, AL021154, AC006458, Z86061, AC002072, AC004841, AC006132, AL121655, AL031280, AC004593, AL121603, AC004028, AL031123, AC004098, AC005082, AC009464, AC004678, AC016025, AC003081, AC004895, AC004057, AC005779, AL035683, AL035423, AC005829, AC005369, AC005043, AC008044, X54177, AC005411, AC016026, AC004672, AL117352, AC008080, Z93023, AC005523, AP000025, U95740, AC003109, AL031577, Z74617, AC004002, AC006547, AC005335, AC002470, AL031255, AC004855, AL050341, AL121593, AC018633, AC005821, AC005535, AC002996, AC005193, AC004922, AC006312, AF196779, AC000097, AC002563, AC006138, AC005740, AF049895, AC004831, AL121820, AL031767, AC004797, AC004234, AL132777, AC005341, AC004216, AL049633, AC002549, AL034548, AL023553, AC005785, AC004668, AC009263, AC007450, AC007320, AC004134, AC005703, AC012380, AC007367, AC007387, AC007363, AC006571, AC005792, AC005387, and AC004033.
HCWEQ37	1108	849985	1 - 389	15 - 403	Z85996.
HCWEQ89	1109	529240	1 - 344	15 - 358	T83652, N52834, AA010013, H52946, H64159, and AA703454.
HCWER22	1110	674807	1 - 214	15 - 228	
HCWER37	1111	849916	1 - 368	15 - 382	
HCWER61	1112	574921	1 - 89	15 - 103	

HCWER81	1113	574167	1 - 454	15 - 468	M78967, and AL031733.
HCWES03	1114	921933	1 - 540	15 - 554	D87470.
HCWES06	1115	935862	1 - 135	15 - 149	
HCWEW45	1116	571355	1 - 193	15 - 207	AI862242.
HCWEW76	1117	861966	1 - 358	15 - 372	AA420421, AA420839, AW340887, T68865, AA706567, AA838190, AA363078, AA533315, AA484373, AA161177, AA161132, AA780541, AA338170, R54486, AI567402, C16659, AA356567, AA745507, AA487198, AA372887, T70121, AI914883, N74208, AI568683, AA934825, AW050400, AW328172, AW082559, AI758256, AA581099, AA648683, T52935, AA604048, F12561, AA365815, AA501614, AI291317, AW270784, AI524360, AA837560, AW328050, H67805, AW328171, T47324, AW440837, AA071173, AA600741, AW083678, AA586866, AA320748, F01979, AW269488, AI053445, F28108, AI002744, AW081610, F08248, T65635, AA229127, AA744172, C15363, AA577732, AI827234, AA071132, AA744278, AL050332, AC005274, AC006101, AP000688, AF121782, AC000080, Z84469, AL021917, AP000044, AB003151, AP000691, AC006040, AC008282, AP000330, AP000295, AP000112, AC006572, AC006946, Z82899, AC001231, AC009405, AC005663, AF001552, AC005822, AP000171, AP000056, AC002300, U85195, D42052, AC004491, AC002425, Z84466, AE000658, AC005913, AC005253, AC001643, AC005387, AP000124, AL109653, AF109907, AC008981, AC006021, AC002565, AC002461, AC007350, AC006139, AC006486, Z98950, AC005393, AC006568, AF064861, AL133241, AC006305, AC005081, L31675, AL050338, AL096705, AL049569, AL035652, D26141, AC005358, Z81364, Z97196, AL034411, AC004132, AL009179, AL009031, AC002326, AC004993, AL135746, AC004617, AL135744, AC006006, AC007786, AC007766, AP000959, AC004197, AC005944, AC006557, U89387, AC005015, AL031846, AC007096, AC002098, U71148, AC003678, AL008636, AC002483, AL035460, AC003689, AL035690, AC004953, AC006146, AF207550, AC004472, AC005902, AF064857, AC004878, AC004448, AC003101, Z84480, Z96074, AC005839, AC005660, AL031589, AL096769, AP000953, AP000160, AP000128, AP000206, AC002066, AP000245, Z83820, AL008718, AJ133269, AC007298, Z68226, AC005512, AL096791, AC002110, AC004531, AB023048, AC005945, AP000511, AL035588, AC005011, AL035089, AP000687, K03021, AC010077, AL022476, AC002379, AP000126, AP000204, Z84487, AC004487, AC004859, AL132712, AC005412, AB017568, Z83840, AP000244, Z97832, AC005632, AC002347, AC006132, AF001551, Z93930, AL008730, AC005754, AC005484, AL021937, AL139054, AC005406, U50871, AC008545, AC004601, AC005089, AL021997, AC004151, AB020864, AL109627, AC006966, AC005548, Z95152, AC005082, AC006254, AC004383, AC005049, AL034429, AL050401, AP000884, U95742, AL031733, X90725, Z80897, AC003110, AL008719, J03071, AC006252, AC002550, AC005868, AP000152, AP000010, AL034423, AC006253, AC008062, AC009743, AC007262, AL022165, AC003081, AF047825, M63796, AC006023, AC006013, Z95113, AC007151, AC005486, AC004596, AC004596, AL031681, AL031668, AC010206, Z69890,

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HCWEW77	1118	664922	1 - 416	15 - 430	AC007216, AC005562, Z97181, AP000257, AL096701, AC005071, Z95114, AL032821, AC007774, AL021807, and AL021546.
HCWEX05	1119	928121	1 - 326	15 - 340	AL020995.
HCWEX40	1120	574940	1 - 251	15 - 265	N87989.
HCWEX59	1121	709560	1 - 344	15 - 358	T56067, AA652057, AW248803, AA664148, AW249224, AA369477, AL138242, AA569187, AA584581, AA125788, AA828704, AI079667, AA834755, AA594725, AI168185, AW193500, AA179136, AA443390, F07193, AA516527, AL133723, AA365347, AA012897, H00934, F37169, T62975, AA503947, AA515346, AW406162, AA650271, AI889781, AI648558, AA502103, AA906889, N53150, AA904140, AA515435, AI678392, AA831388, AA364315, AA483223, AI801591, X06123, AC002350, X61109, AC007193, Z83845, AC005913, AP000967, AL022329, AF200465, AC006285, AC005215, AC005565, AC005537, L81693, Z83826, U78027, AC005071, AC007666, AC003035, Z82188, AC004973, AC006965, AC006006, AL035422, AL035695, AC005385, AC005962, AC006312, AC005365, AC005003, AC005324, AC006600, AC000052, AL034420, AF165926, AC005736, AF109907, AP000362, AP000553, AP000010, AP000152, AL132712, AP000555, AC004019, AC002472, AC000159, AL121603, AC007565, AP000348, AC006571, AB016897, AP000354, AC003038, AC005755, AL035690, AC002077, L48038, AC004263, AC000353, AL080317, AL031589, AL008582, AR036572, U91328, AB023049, AC002483, AF006501, AL133396, AL022721, Z99716, AL035494, X03272, AL022476, AC004797, AL049776, AL022323, AF196779, AP000692, AL035089, AC004909, AC005740, AC002312, AC006211, AL021453, Z98200, AL031447, AC005822, Z97184, Z73360, AC002349, AC002301, AL139054, AL009178, AC007115, AL035460, AL035417, AL035681, U62293, AC004813, Z82244, AL023553, AL050332, AC004865, AL080243, AC000039, AL022328, Z98946, AC007999, AF134726, AC020663, AL009179, AC007664, AL022313, AC002448, Z69705, AL109963, AF019413, AC006130, AJ003147, AL049780, AC006039, AC005043, AL031257, AC005211, AC005057, AL135744, AC005200, Y07848, AC005516, AC006538, AC006530, AP000162, AP000020, AP000087, AC005670, AL021366, AC005783, AC005911, AL023879, AC005212, AC004622, Z69651, AC007308, AC009516, AF111168, AC004754, AC005235, AC005304, AL035072, AC007285, Z98048, AC007182, AL050338, AC003085, AC005730, AC007842, Z83822, AC005281, AC007285, Z98048, AC007182, AC005081, AL133245, AL023807, AC008079, AL031685, AL050318, AL031446, AC004099, AC005041, AC005940, AL031668, AC005776, AP000557, Z97056, AC006441, AP000512, AL096829, AC002070, AP000030, AP000151, AP000226, AC005754, AC000026, AL022311, AC002402, AC016025, AC005544, AC007543, AF121781, AC007011, AC005274, AL008715, AC004890, AF091512, Z86090, AL031666, AL035692, AL008718, AC007537, AC007324, AC012384, AC006515, AL035659, AP000047, AC005829, L76568, Z98742, AC006057, Z85986, Z83844, AC005969, AL132777, AC002470, AP000173, AP000500, AL034548, AP000502, AC004463, AC018633, AC006946,

HCWEX66	1122	731772	1 - 323	15 - 337	Z73359, AL049856, AC002059, AC004856, AC005069, AP000359, AC004858, AC002067, AL049757, and AC004033.
HCWEY07	1123	953701	1 - 412	15 - 426	
HCWEY33	1124	702597	1 - 418	15 - 432	AC005911.
HCWEY34	1125	954142	1 - 233	15 - 247	
HCWEY84	1126	952692	1 - 458	15 - 472	AA598892, AAS08036, AAS25293, AA984829, AI918419, AA126277, AA172365, R22248, AI272052, AA360260, T94592, AL096701, AF196969, AF196779, AL031597, AL034417, AD000092, AL049757, AC006449, AF030453, AC002312, AC005088, AC002395, AC004150, AC005089, AC004216, AL031053, AF053356, AC006487, Z98051, AC005049, Z83851, AF109907, AP000555, AC006480, AL021578, AC006211, AC005081, AL031311, AC004382, AC006312, AC007308, AC005005, AL023553, AL049829, AL049631, AL121652, AL109801, Z95114, U85195, Z83826, AC007450, AC000134, AC004858, AC004841, AE000658, AL021920, AC005920, AC005067, AC007226, AC005702, AF111168, AC002546, AC002477, AL117344, AC004134, AC005184, AF001549, AC000070, D87675, AP000553, AC005632, AC006511, AC004019, AL133243, AL050321, AL121769, AC004797, AC005778, AC007999, AC005808, AJ229041, AC007193, AL023653, U95742, Z82203, AC007371, AC006111, AC000353, AL035422, AL009181, AC006360, AC005839, AC005480, Z95152, Z94056, AC005399, AL021394, AP000512, AC005015, AF017104, AL020997, AL121578, AF003626, Z86090, AC005914, U78027, AL050341, AC005609, and AL022238.
HCWEY88	1127	785508	1 - 321	15 - 335	H44471, AI246061, AA161305, AA224525, AAS55143, AA664248, AW270429, AI860535, AW270351, AI223626, AA135868, AW019964, AI054090, AI278972, AAS65911, F32248, AI284543, AI254770, AI251944, H09639, AI251034, AI251203, AI251284, AI250552, AI251241, AI249853, AW265149, W32993, AW151870, AW058430, AI053934, W63553, AI053597, AA862312, T03928, AA487209, AW303098, C15504, AA340153, C14796, AA832152, H47368, C14627, Z95116, AC010206, AC005913, AF118808, AC005844, AC004662, AC006360, AC006313, AC004465, AL034400, AC004815, AC002365, AC004984, AL034549, AC007676, Z95118, AC008009, AL009181, AC005565, AC002465, AC005746, AC002312, AF196969, AC004799, AL033397, AC007276, AC007028, AC008041, AC005291, AC005207, AC002369, Z94801, AL135746, Z97630, AL050318, AC005318, AC003959, D88270, AL022162, Z94056, AC005237, AC006121, AC002425, AF129756, AC002041, AL049745, AC005856, AC005041, AC005666, AC006130, AC005519, AC006352, AL096701, AC004963, AC005015, AC005488, Z93017, AC009946, AC006359, AC005632, AL096701, AC006241, AC004813, AC004813, AP000555, AL034418, AL117354, AC002287, AC005740, AC006241, AC004813, L29766, AL080242, Z83843, AL035683, AL021878, AC005696, AC005736, AC008044, L29766, AL080242, Z83843, AL035683, AL021878, AC005696, AL049539, AL121825, AC004150, AC004941, AC004895, AL023284, AC004185, AP000475, AC004686, AL031651, AC004033, AJ011930, Z98950, AL035405, AL021807, AC004386,

HCWFA14	1128	925301	1 - 479	15 - 493	AC002456, AL022324, Z81364, U95740, AC003962, AL022323, AC005049, AC004804, U91323, AC007671, AC005251, Z98742, AL139054, AC005476, AL035423, AC006487, AP000502, AC003957, Z95331, AL022334, AC005776, AL049869, AC002477, AC007066, AL078581, AC007114, AF222685, AL031848, AL021937, U48697, AC005412, AC006333, AF134726, AF050154, AC004152, AL078634, AL022313, AC006441, AF130248, AL050308, AC000082, AL031311, AF107885, AP000045, AP000113, AP000509, AC004856, AL031666, AC005401, D87675, AP000512, AF196972, AL049834, AC006057, AC004148, AC008018, AF031078, Z82097, AC007537, AL008635, AC007666, AC004797, AL109939, D86992, AC006552, AP000300, Z93023, Z84481, AC005157, AC004997, U96629, AL022393, AC004912, AC005585, AL031320, Z85987, AC003086, AC005200, AL133163, U78027, U62293, AP000065, AC007707, Z97987, AC007899, AC006026, AC004876, D86995, AF001552, AL031432, AC006950, AL035422, Z98749, AC005089, and AC006392.
HCWFA65	1129	573193	1 - 236	15 - 250	T61555.
HCWFA88	1130	578943	1 - 365	15 - 379	AP000126, AP000204, and AP000244.
HCWFA89	1131	574370	1 - 257	15 - 271	AC002039, AC002045, U91326, AC002544, and AF001549.
HCWFC05	1132	932194	1 - 360	15 - 374	AC007283, and AC008179.
HCWFC17	1133	573186	1 - 367	15 - 381	Z98744.
HCWFC65	1134	883787	1 - 340	15 - 354	
HCWFD07	1135	953700	1 -571	15 - 585	
HCWFD19	1136	574915	1 - 267	15 - 281	
HCWFD29	1137	573381	1 - 210	15 - 224	
HCWFD47	1138	671946	1 - 300	15 - 314	AI799197.
HCWFD64	1139	954575	1 - 363	15 - 377	T81407, AC006942, and AF064861.
HCWFE06	1140	935856	1 - 379	15 - 393	AA663467, and AA663457.
HCWFE18	1141	573445	1 - 99	15 - 113	
HCWFF41	1142	849978	1 - 135	15 - 149	
HCWFF88	1143	506577	1 - 304	15 - 318	
HCWFJ65	1144	578936	1 - 386	15 - 400	
HCWFJ72	1145	856908	1 - 625	15 - 639	AA594971.
HCWFK16	1146	849938	1 - 187	15 - 201	
HCWFK20	1147	575696	1 - 225	15 - 239	
HCWFK35	1148	916795	1 - 540	15 - 554	AA491175, and AC003957.
HCWFK57	1149	861907	1 - 314	15 - 328	
HCWFK73	1150	761655	1 - 304	15 - 318	AA093114, AA523695, AA487226, AI364568, T62078, AI869786, H95822, AI686470, H81700,

Clone	No.				Accession Numbers
HCWFK91	1151	954008	1 - 315	15 - 329	AA214042, AA297006, AA021561, AA056250, H69992, F34939, C16358, H45698, T94394, AA582746, AI697242, AA225004, AI371722, AI003444, AW264391, AI866580, AI697239, W81372, AI697235, AA558366, AI355246, AA564800, H64715, H68379, AA668587, AI973173, AA828476, AW019964, H29241, AI279417, AW419417, AI367551, N25079, AA243976, H29914, AA568314, AA378489, AL031591, U47924, AC004841, AL008730, AC005015, AJ010770, AC003037, AC001228, AL133243, AC005839, AC004999, AC005726, AC005694, AC002470, AC006449, AC005520, AL049872, AC005736, Z84466, AL009181, AL049795, AC005480, L44140, AC007263, Z97055, Z98950, AP000692, AF152365, AC006360, AC003663, Z73359, AC002544, AC007308, AF196779, AC006241, AL132987, AL031848, AL049874, AC005519, AC004832, Z86090, AC005399, AC006045, AC007066, AC005088, AC005412, AC004476, AC002302, AC004033, AC005529, AC004765, AC005486, AL096701, AL032821, AC005684, AC004232, AC004921, AL139054, Z98036, AP000354, AB026898, AC004816, AC007637, AP000300, AL096791, U80017, AP000010, AP000045, AL031295, AC000079, AC009784, AL109827, AL080243, AC004522, Y10196, AL035420, Z99716, AC007057, AC005071, AL133448, AC004783, AC002432, Z84469, AC002395, AC004216, Z97632, AL133246, AC004770, AC006020, AC003086, Z83844, AC007179, AL031864, AC002073, AL031589, AC004019, AP000049, AP000111, AP000049, AC004518, AP000557, AC002563, AC005821, AC007390, AP000066, AP000113, AC006088, AC005102, AC004217, AC007363, AL121840, Z99127, AP000503, Z97053, AP000311, AC005488, AC005049, AC003029, AC004381, AP000553, X55448, AC004967, AC004659, AP000689, AC002996, AP000356, AC006111, AL024498, AF134726, AL022326, AF165926, AL008729, AL034549, AL121658, AL031667, AF111168, AC004687, Z98742, AC004813, AC005324, AC004223, AP000961, AC005899, AF196969, AC006487, AC006013, Z97181, AL022721, AF060568, AC006021, AC005089, AC005081, AC003108, AC005566, AC004797, AC006387, AJ011930, AL035685, Z73417, AC005793, AC005280, AC012384, AF024533, AP000552, AL035681, AC003982, AL031659, AC007114, AC005386, AL035249, AL035683, AC004901, AC005971, AC000378, AC005562, AC008372, AC004099, AC005225, AC002351, AC002492, AL008707, AC000025, AC005740, AC000353, AC009509, AC006254, AC002492, AC005527, AL049694, AL034421, AC009516, U63630, AC005746, Z95152, L78833, AB023048, and AL031291.
HCWFL10	1152	964853	1 - 317	15 - 331	L44321, AL096867, AL022154, AC007567, AL034402, and AC004853.
HCWFL31	1153	953579	1 - 186	15 - 200	AL031673.
HCWFL45	1154	577950	1 - 402	15 - 416	AA579235.
HCWFL78	1155	529218	1 - 288	15 - 302	
HCWFL86	1156	523359	1 - 417	15 - 431	Y13758.
HCWFL94	1157	575522	1 - 290	15 - 304	N21434, AA126969, AW069769, AA551548, AA640563, AI031759, AA664248, AI300507, AI183392, F31670, AA507623, AA219166, AA837771, AI567676, AA648605, AA558402.

AA558716, W00479, AJS21019, AI538404, AI884404, AAT74169, T57096, AA846046,
AW271071, AA225630, AA657808, AI251024, AW407679, AI872229, AA715508, R12600,
AI281622, AI803824, AI241851, AI267356, AI926093, AW023975, AA364082, AI754257,
AI801479, AA984891, T41134, AW243817, R33053, AI961232, AW085811, AA349923,
AA602939, AI520984, AA987703, AW268793, AW439224, AI267450, AI065031, AI921744,
AI745666, AA018923, AI032411, AA533011, AA364147, F35684, AI732911, AI185394,
AA507990, AI252726, AW406139, R95751, AI174827, AI668566, AA309287, AA808842,
AI469564, R33588, AA873661, AW157128, AI274691, H49749, AA633068, AA012829, H79323,
AI039257, AA640305, C14724, AW022796, AA601712, AI733523, AI038029, AJ434103,
AI828742, X84712, AA630122, AI708565, AA367920, AA338238, AW021674, AI888852,
W02419, AA730530, AF075069, AF129756, AL035587, AC005399, AF165926, Y18762, Z83845,
AC005015, AC005089, AC004099, AC005730, AL133163, AL049591, AC005837, AC005828,
U02057, AC006544, AL080317, AC005531, AC000039, AL020997, AL035445, AF196972,
AF030876, AC007371, AC007051, AC007919, D42052, AC004053, AB023051, AP000116,
AP000505, AC005105, Z98946, AC005821, AC006543, AB033024, AL136295, AC006006,
AC006581, AL050320, AP000512, AC007226, AC005069, AL031848, AC004678, AC004668,
Z83844, U78027, U91326, AC002544, AC006538, Z69366, AC007878, AL035422, AC007462,
AC002306, AL096761, AC020663, AC005694, AJ246003, AP000513, AC006953, AL117258,
AD000092, AL078477, AF207550, AL109798, M89651, AB023049, AC007536, AL049636,
AC003042, AC008372, AC005993, AL022336, AC006599, AC007687, AL121658, AL031721,
AL049829, AC006062, AL008735, AL035086, AC000134, AL034548, AC006388, M81890,
AC005527, AJ251973, AC002369, AC006511, AC009516, U26425, AC004234, AF111168,
AL031575, Z97630, Z98884, AC007899, AL031311, AC006121, Z98200, AL132712, AC005037,
AB023048, AC005519, AC007277, AP000511, Z84480, AC007314, Z81369, U63721, AC004592,
AC004073, AC007934, AF031077, AF134726, AL135783, AL035450, AL031295, AL079295,
AC008044, AC006241, AC004257, AL049569, AL096699, AL049759, AC006088, Z95114,
AL021707, AL023801, AF031078, AC005565, AC005952, AL035413, AL035652, AC016027,
AC007227, AL034421, U91322, AC009248, AL008731, AC002492, AC005747, AL034553,
AL031680, AC005759, AL109628, AC006211, AL031657, AC006162, AC005529, AC004381, AL121934,
Z73979, AC005695, AL022318, AC005390, AL109847, AC006162, AC005207, AC004953,
U07563, D16583, AC004460, AP000256, AL008718, A65971, AC005261, AJ003147, AC006946,
AC005365, AL135744, AC005031, AL022333, AC002310, D16517, AC006261, AB000882,
AC005280, U24498, AL031903, Z68756, AL022476, AC007688, AC009498, AC002364, Z95116,
AC004019, AC004814, Z83840, AC002991, AC004844, AP000510, AC004797, AC004477,
AL133448, AC005778, AF076450, AC004975, Z84469, Z98051, AC005682, AL035045,
AL035455, AC000075, AC000084, AC004703, AC006369, AC004673, AC006449, U80017,
AC004897, AC007773, AC004130, Z82182, AL008628, AL122020, AC005325, AC006064,

HCWFM01	1158	916803	1 - 217	15 - 231	AC008115, AC004883, AC002400, Z93017, AL122023, Z69713, L78833, AC002036, AP000098, AP000099, AC005911, AC005375, AC005755, AL031284, AC004148, AC007450, AC004997, AP000275, AC002994, AC016830, AL109613, AC007016, AC005046, and AC005914.
HCWFM11	1159	959457	1 - 365	15 - 379	AA054176, AI669046, AA385798, R79698, AC003688, AP000096, AP000240, AL020997, AC006946, AC005070, AL096794, AL049849, AL079340, AL109914, AC019014, AL049646, AF111169, AC007073, AC005071, AJ251973, AP000549, U82694, AF001549, AC005684, AC006953, AC004517, AC003065, AC005865, AC005033, AC005389, AL034406, Z98200, AC007842, AP000512, AC006544, Z82249, AL078583, AC005699, and AC010168. AA640305, AA156183, AI754257, AA631915, AA720732, AW083707, T71936, T58395, AI869455, AA862243, R68249, AA129133, AA883595, AA747469, AJ241761, AW021105, AW023167, AI207424, AA804726, AA936746, AJ230815, W01344, AI744199, AI763234, AA324242, R76686, AA776899, AA664963, AL135357, AL044701, AAS93537, AI984742, AI917132, AW072963, AI307563, AC002470, AC004841, AC002094, AC005399, AC007066, AC005207, AF111169, AC004820, AP000240, AC005049, AD000092, AP000096, AL135744, AC003684, AC008018, AC007263, AC005529, AC005300, AP000011, AF001548, AB003151, AL035423, AC006511, AC007312, AC004707, AL031670, Z93017, AC005088, AC007371, AC006241, AL031293, AL022721, AF111168, AC004167, AC005295, AC002369, AL049653, Z99127, AC004234, Z93930, Z98884, AC006509, D00591, AC005251, AC003043, AL021397, AF129756, Z98884, Z93930, AC006509, AF165926, AP000322, AC002375, AL049839, AC006121, Z84480, AC005071, AC007774, AC007395, AC006001, AC005224, AC002377, AC004076, AC004922, AL033524, AC000159, AP000361, AC004129, AL132987, Z84469, Z82246, AF053356, AP000153, AC005231, D87008, AC004477, Z97056, AF196969, AL035458, AL133246, AC002351, AP000053, AP000121, AP000557, AC007277, U29895, D87012, AL022336, AL049538, D88268, AC004263, AC004583, AP000065, AP000280, AP000030, AC002477, AL034429, AC005253, AC006166, AP000215, M57678, Z98304, AC005370, AP000505, AE000658, AC005632, AC005070, AC005821, AL031311, AC004762, AC003982, AC005772, AC007308, AF176815, AP000107, AP000039, AC007993, AL109839, Z99943, Z73420, AC007228, AC002060, AL096791, AP000556, Z86061, AP000497, AL049557, AC008038, AP000558, AL031733, AL035420, AC005856, AF024533, AC006530, M63543, M63480, AC002400, AC006455, AC005519, AC007565, AC006077, AD000812, Y11107, AC007537, AC004805, AC005919, AC005940, Z69713, AC002301, U85195, AC006254, AF038458, AC004491, AL023096, AL078463, AC005755, AC004815, AL035249, AC007676, AP000694, Z93016, AL033521, M63544, AP000348, AC002563, AC005875, AC005726, AC006160, AL049776, AC009516, AP000038, AP000106, AL031284, AC004472, AC007664, AC004851, L81692, AC005023, Z92542, AC006376, AL035462, AP000228, AC005520, AL034419, AC004799, AL035587, AC002395, and AL031681.

HCWFM16	1160	678627	1 - 368	15 - 382	W07244, H81645, H87712, Z18338, AJ627848, AF128536, and AF128535.
HCWFM26	1161	677348	1 - 356	15 - 370	AL021918, AC003070, Z93017, AL022316, Z97876, AC008079, AC004228, AL109827, AP001054, Z81370, AC008018, and AC004678.
HCWFM43	1162	715387	1 - 88	15 - 102	
HCWFM59	1163	757660	1 - 338	15 - 352	
HCWFM60	1164	740470	1 - 410	15 - 424	
HCWFM65	1165	849957	1 - 252	15 - 266	AI349018, AC006512, Z85987, AL117338, AC005920, AC003982, AL031681, AL050318, D87675, AC005233, AC007226, and AC008072.
HCWFM77	1166	706488	1 - 152	15 - 166	
HCWFN14	1167	680404	1 - 351	15 - 365	AL134393.
HCWFN22	1168	674750	1 - 381	15 - 395	
HCWFN37	1169	576547	1 - 255	15 - 269	
HCWFO01	1170	916814	1 - 357	15 - 371	AI657485, N83963, N88177, N87188, N83707, AR018815, U39066, U48696, AF045432, AJ243486, U48697, AF102850, X99060, AF001863, AF061744, X99056, X99052, Y16299, X99058, X99051, AF011573, and X99055.
HCWFO02	1171	920416	1 - 372	15 - 386	
HCWFO20	1172	577709	1 - 303	15 - 317	
HCWFO24	1173	664581	1 - 328	15 - 342	
HCWFO30	1174	692814	1 - 316	15 - 330	
HCWFO40	1175	913855	1 - 407	15 - 421	
HCWFO51	1176	725756	1 - 72	15 - 86	
HCWFP21	1177	531288	1 - 442	15 - 456	
HCWFP27	1178	927700	1 - 287	15 - 301	AC002540.
HCWFP47	1179	849893	1 - 398	15 - 412	
HCWFP71	1180	933211	1 - 341	15 - 355	T65964, R01423, R01424, R05277, R44699, R05277, R44699, R51780, R44699, H11322, H13859, H13911, H21393, H22117, H45982, H98744, N37080, N62715, N93640, W60228, W76544, W87768, W90518, AA010775, AA011055, AA029083, AA029084, AA036822, AA057660, AA082814, AA101057, AA130702, AA132788, AA147813, AA151511, AA173298, AA187994, AA192370, AA243010, AA250948, AA521284, AA535404, AA594843, AA603875, AA627091, AA662313, AA721002, AA761271, AA826710, AA865743, AA975254, AA995525, C05796, AA206634, AA654116, AA283178, AA291958, AA291959, AA452464, AA852494, AI003962, AA628258, AA634632, AA447651, AA777137, AA812493, AA835567, AA846451, AA852494, AI003962, AI084740, AI094339, T23658, Z41681, F03361, F03690, F09370, AI245866, AI251909, AI280679, AI202164, AI474105, AIS24387, AI540076, AI479426, AI498061, AJ582492, AI127570, AI187378, AI191272, AI279638, and AI587165.
HCWFP81	1181	576363	1 - 306	15 - 320	

HCWFR11	1182	967266	1 - 170	15 - 184	
HCWFR83	1183	721373	1 - 450	15 - 464	
HCWFS22	1184	971566	1 - 365	15 - 379	AI830563, AI675015, AI634079, AI766110, AI924352, AAS06986, AI419874, AA417050, AI582146, AW302226, AI653982, AA707615, AA947674, AI824293, AA417181, AA923538, AI367252, AA344961, AW418521, AAS59136, AI253198, AI028337, AA835007, AI367250, AI081854, AW136460, T12625, AI873313, AA879191, AW087636, AI207096, AW087600, AA904762, and AI198471.
HCWFS65	1185	572953	1 - 238	15 - 252	
HCWFT29	1186	690751	1 - 357	15 - 371	AL041375, T52772, AI572680, AW275432, AI801563, AA493464, AA810158, AW238575, AA601376, AA355367, AAS15924, AAS95661, AA484892, AW084173, AI251024, F01666, AW089625, AI355246, AI797998, AAS26413, AAS25807, AA019973, AA128511, AA602971, AI927275, AA199582, N90244, AAS59241, AI002950, AA604601, AA640305, AI760835, AA367672, AAS03298, AA397355, AL043719, AI973173, AA013168, AA313025, AW270768, AW272815, AI609972, AAS15905, AW238016, AA112187, AI246796, AI935827, AA714011, AA228778, AI345157, F01532, AAS13122, AW302903, AW275719, AW105463, AL048925, AI283938, AW238712, AI056177, AW419389, AI678468, AA420787, AW193493, AA657835, AW179316, AA837646, T48723, AA904275, AI926909, AI803809, AW020088, AA610784, AW023390, AI923052, AA079421, AA225392, AC003041, AL049830, AL031433, AC004797, AC005740, AC009516, Z83838, AC002119, AC005940, AC005920, AL023281, AC005261, AC012627, AC005821, AC005899, Z94056, AL035587, AL031432, AC004859, AC004019, AL034423, L05367, AC008124, AC005037, AL022336, AC004895, AC003098, AC003109, AC005822, AC005529, AP000066, AP000556, Z99570, AC020663, AC004408, AP000116, AB000882, AC005387, AL109627, AC007666, AL031390, AC006254, AC004623, AC004448, AC002347, AP000503, AF134726, AL031577, AC004686, AL049636, AC005486, AC004596, AC005971, AL022721, AL139054, AC002551, AC005523, AC005358, AC005527, AL121754, AL035684, AC004034, AC005913, AC006071, AP000049, AC007536, AC005902, AC006285, AC007216, AC005703, Z95114, U78027, U91326, AC006011, AC006449, AP000311, AC002059, AC005839, AP000512, AL049795, AL049766, AL049793, AC003956, AC005288, AL049709, Z98200, AC002511, AC004242, AL117694, L44140, AC005914, AL049692, AC003030, AF111169, AF111168, AL022311, AF045555, AC004526, AC005399, AC004167, AC004878, AC007227, AL035422, AC004796, AC006511, AC002091, AC005104, AF031078, AC004821, AC005081, AC005004, AL033392, AC006057, AC004150, AC005318, AC002492, AC005722, AF030876, U62293, AC004882, AC004253, U63721, AC005736, AC006111, AC007225, AL035659, AC007030, AC000052, AC005695, AL022313, AF109907, AC002045, AL031393, AC000026, AC007395, AF141309, AL031282, AL034351, AC002544, AL022327, AC006270, AL121655, Z83840, AC005015, AL049872, AC004854, AL133245, AC005799, AL022328, AP001053, AC002115, AL049643, AF003626, AJ246003, AC006360, AC018633,

HCWFT33	1187	959471	1 - 258	15 - 272	AF196779, AL020997, AC002302, AC007308, AC004099, AL022237, AC002314, Z98048, AC005251, AP000513, AC004383, AF196969, AL031591, AL050348, AC005619, AC003688, AC006001, AL050318, AC004816, AC005082, AF207550, AC002312, AC006023, AC005291, AC005274, AL031280, AL022316, AC005216, U07563, AF114156, Z84469. AC004491, AC007358, AC002310, AC000070, AC004894, AC005520, AL022334, AC003101, AC006055, AL133448, AL133353, AC002984, AC004887, AB001523, AC007919, AC002468, AP000009, AL080243, AC006487, AC005089, AP000326, AC007151, AC002477, AC006948, AL049757, AL121603, AL021154, Z83826, AL132777, AC006084, AC003006, AC004967, AC006368, AL049869, AC008044, AC005519, AC003070, Z83846, AL031368, Z83822, AP000122, AP000169, AP000054, AC004999, AL118497, AF038458, AC007263, AL022322, AC004805, AL109613, AC007066, AC002394, AC005257, AL035398, Z99716, and AL031003.
HCWFT44	1188	935855	1 - 338	15 - 352	
HCWFT77	1189	739571	1 - 259	15 - 273	AI922362, AA130574, and AC004492.
HCWFT84	1190	542236	1 - 396	15 - 410	
HCWFU03	1191	921944	1 - 307	15 - 321	AW205685, AI698601, AA884459, N23262, AA552480, and AA905404.
HCWFU07	1192	861902	1 - 107	15 - 121	AC006501.
HCWFU19	1193	577315	1 - 536	15 - 550	
HCWFU32	1194	716340	1 - 473	15 - 487	
HCWFU64	1195	577888	1 - 364	15 - 378	AA745185, AI216430, AP000553, and AC009516.
HCWFU66	1196	853005	1 - 392	15 - 406	
HCWFU76	1197	576839	1 - 401	15 - 415	AA768179, AA368329, AA346867, AA348271, AW439810, AI278130, AI904944, T07285, AA58404, AW268090, AA229823, AI567391, AA228979, AW243945, AA279385, AA112924, N86484, F30586, AA297443, AA583579, AA078384, AI283938, AI421257, AA378489, T99020, AA564925, AA745297, AI273837, AA972523, AA372311, AI369076, R99613, N40907, AA581240, AA582746, AA559205, AI984168, AA367014, AW008184, F00458, M62257, AA424249, AI299442, AA449468, AA581185, AI016192, AI932871, T62078, AA229422, AA160427, AA484892, W26972, AA515172, AA385775, AA583568, AA372389, AA354695, AA838098, AI003391, N92697, AW194046, AI889426, AA523695, AA582350, AI859744, AA653713, C15362, AA356376, AW237905, AA631801, N77384, AA720582, AI915081, AW341955, AA573000, AA482792, AW328331, AA302978, AA728911, AA664248, D51809, AA610255, AA419225, AW341882, AA630854, AA502110, AA115865, AW272389, AI223968, AA634991, AW328330, AA488687, AA832016, AA661883, T40550, AA503307, AA354677, AW265688, AW151247, AI354333, AA584765, AA837771, AI146266, AA352521, AA838161, AW249720, T47138, R98409, AI859438, AA427808, AA481811, W02749, AL041895, AA515939, AI123488, F17537, AA669747, AI927275, AA810837, AA425924, AW264998, AA678616, N52276, AA364988, AI537800, AA329535, AI187148, AC005538, AC002066.

HCWFU83	1198	574864	1 - 515	15 - 529	AJ133269, AC005031, U80017, AC007637, AC004526, AC004148, AF109907, U02051, AL109952, AL031587, AC004019, Z97630, AC004253, AC007738, AL024509, U62292, L34635, AC005955, AC005089, AL133163, AL133245, L05367, AC005480, AC000064, AL096791, AC005231, AL096766, AL024498, Z83826, AL49776, AC004821, AC003004, AC006537, AC006441, AC005919, AL049636, AC004913, AL031346, AC007551, Z94056, AC004970, AD000092, AC004856, AP000502, AC004131, AC005015, AC002350, AL035079, AL096712, AC007566, AC006263, S42652, Z84722, U63721, AL096703, AC007182, AC000025, AC005666, AC003007, Z98941, AC006276, AL050318, AC002369, M87890, Z96470, AC005611, AC002310, Z68873, AC006344, AC004849, AC007842, AL022315, AC005730, AC005479, AC007436, AC005328, AL021579, AB022785, AC004517, L35532, AC005258, Z49236, AC005837, AL031311, Z85986, U95742, AL135744, AC007421, AL049832, AL034429, AL049540, Z15025, AC005632, D38522, AL008715, Z97053, AP000326, L78833, AC007686, AB023049, Z84474, AC002477, AP000054, AP000169, AP000122, AC005377, AJ236701, AC006126, AC005332, Z69917, AC007314, AL132987, AC005211, AC005826, AC006254, AC016027, Z84469, AC007435, AC006379, AC004973, AC002306, AC004851, AC004030, AC007860, Z82208, AC003029, AC005180, AC016830, AC003010, AC000075, AC044655, AC004882, AF196971, AL031230, AL022311, AP000512, Z98048, AF134726, AL121838, AC012627, AP000503, AC005071, AC005839, AC004686, AL049830, AC006132, AC007384, AC007216, AL133243, AP000253, Z81364, AC004663, Z83844, AL035072, AC007225, AL049712, AC005210, AC006388, AF047825, AC009946, AP000691, AC005681, Z85994, AL035685, AC005519, U16302, AL031281, AC006125, AC004816, Z93017, U91326, AL031728, AC007226, AF001550, AL133312, AC004811, AC005306, AC004626, AC004802, AC004883, AC004841, AC000070, Z97054, AC003081, AF111169, AC006976, Z83840, AC006285, AP000008, AC004707, AC002045, AC005696, AL021707, AC005200, Z95114, AD000864, AC005763, AC005736, AL121655, AL049757, AC004685, AC006251, AF023268, K01254, AL034421, AC005911, AL109798, AL024474, AC005759, AL049758, AF124523, AL049794, AL031983, AC002300, U62293, AC005280, AP000704, AP000498, Z93848, AC004825, AC003688, AL008718, AC005971, AL031258, AL035658, X54486, AB026898, AC004859, AC006480, AC009247, AC004662, AC007731, AC005527, AL109967, M17262, and AC005500.
HCWFV16	1199	849953	1 - 381	15 - 395	T71420, H65742, R17043, R53388, N39910, AL031295, and AL049675.
HCWFV21	1200	849905	1 - 349	15 - 363	
HCWFV25	1201	733993	1 - 535	15 - 549	R92125, T98334, AI424340, AA632445, and AC004749.
HCWFV32	1202	960099	1 - 247	15 - 261	AF001550.
HCWFV34	1203	577896	1 - 456	15 - 470	AA488048, AW007822, AC005244, AC004075, AL080241, AC002412, AC004388, AL132668, AC005100, AF117829, AL022158, AC004585, Z95152, AL022310, AC004478.

HCWFV37	1204	575715	1-408	15-422	AC000114, AC007680, AC004014, AC007655, AC006313, AC007115, Z80771, and AL035464.
HCWFV50	1205	723666	1-433	15-447	N64515.
HCWFV69	1206	527087	1-410	15-424	AC004007.
HCWFW51	1207	671807	1-493	15-507	AA911986, and AP001055.
HCWFX23	1208	675902	1-332	15-346	
HCWFX30	1209	825920	1-322	15-336	
HCWFX44	1210	703028	1-503	15-517	N51043.
HCWFZ30	1211	692719	1-310	15-324	AL119853, and Z69304.
HCWFZ56	1212	733414	1-294	15-308	
HCWGA27	1213	861968	1-325	15-339	AI880278, AW276156, AI983646, AA877596, AI887774, AI347477, AI673036, AI458241, and AL022237.
HCWGA32	1214	699272	1-331	15-345	
HCWGB61	1215	733105	1-487	15-501	L44329.
HCWGB64	1216	578734	1-158	15-172	
HCWGB78	1217	861843	1-380	15-394	
HCWGC02	1218	917348	1-321	15-335	
HCWGC50	1219	772358	1-399	15-413	
HCWGD20	1220	906973	1-373	15-387	AI636734, AA557982, AA715527, AA715344, AA284247, W02749, W63553, AA715284, AI923360, AA557136, AA742815, AI929298, AI929825, AL120543, AL039930, T47138, AW157180, AI291419, AW403829, AA401921, AI571866, AA219349, AI368873, AC006141, AC004257, AC005317, AC005071, AL031123, L78810, AC004542, AC007216, AP000501, AC007052, AC006449, AC003665, AC005531, Z85987, AC007637, AL008726, AC007546, AF001548, AC007686, AC004821, AL031295, AC005529, AL135744, AC000353, AP000313, AC005911, S45332, Y10196, AC004825, AP000050, AF196779, AJ251973, U95740, AC005088, AC004797, AP000117, AF134726, AC006581, AC006211, AC005696, AP000557, AC006946, AC004638, AL050342, AC006130, AC005484, AC000025, Z84718, AC004890, U78027, AL078593, AC003070, AL033375, AC006360, AD000092, AL035422, AC007690, AL049874, AC009516, AL050327, AC005015, AC006251, U91326, U95742, AF045555, AC006241, Z99495, AC002310, AC006480, AC004531, AL031733, AP000350, AC005261, AC020663, Z98884, Z98941, AC006121, AC005081, AC006084, AP000352, AC002416, AC004765, AC006160, AL109628, AP000558, AC005102, AC006487, AP000503, AL035684, AC005920, AC007376, AC002425, AC005189, AP000114, AP000046, AL078477, AL031680, AP000503, AC002477, AL133246, AC002544, AC005324, AC004876, AC010582, AL031680, AP000065, AC009405, AL022240, AC005027, AC006539, AC004983, AC007880, U47924, AP000065, AC009405, AL031311, AC004815, AC004448, AC003002, AC007738, AC007225.

HCWGD33	1221	849909	1 - 327	15 - 341	AL121655, AC004000, AC004927, AC004933, AC008044, and AC006080.
HCWGD66	1222	496411	1 - 264	15 - 278	
HCWGE12	1223	967067	1 - 364	15 - 378	
HCWGE22	1224	727967	1 - 328	15 - 342	AA330772, AW022897, R79496, AA188940, H12383, AL038971, AI339974, AA370455, AL031584, Z98941, Z97055, AC004815, AC005015, AC004876, AC004584, AL022165, AC005952, AC004491, AC000134, AC005821, AJ003147, AC006071, AC006285, AC005280, AC005300, U07563, AC003690, AC007842, AC004552, AP000692, AL049757, AC002299, AC006953, AC005048, AC008044, AL035071, AC002045, AP000513, AC004926, AC007151, AC016830, AB023049, AC004526, AL121578, AC005527, AP000513, AC002470, AC006312, Z85986, AC007993, Z84469, AC002558, AC004638, AC005529, AC002470, AC006312, AF111168, AC004967, AC004832, AL020997, U91326, AC007541, Z82208, AC004263, AJ229042, AC000025, D84394, AC016025, Z96074, AC005519, AC007041, AL034429, AC007308, Z95115, AC006252, AL031311, AJ251973, AL035659, AC005011, AC004167, AC006251, AL035089, AC005899, AC002544, AL096702, AC002365, Z98946, AC004770, AC006121, AL132712, AC004945, AC007421, AF064861, AC006530, AL031291, AC006946, AC006211, U80017, AC000359, AP000346, AF128525, AP001054, AC000357, AL009181, AL035450, AL009182, AL133500, AL031228, AC005081, AJ010770, AF001552, AC008372, AL022722, AC006388, AC006023, Z97053, AC004228, AC002565, U52111, AC006120, AL035681, AC006450, AL049872, AL049636, AL034555, AL035415, Z99128, AL035587, AC006040, AC006115, AC002070, AL022238, AC006324, AC005940, AC016027, AC004687, AP000252, AP000211, AP000167, AC004216, Z82201, AP000689, AL008726, AP000558, AC004887, AC005874, AF134471, Z93930, AC005993, AC003108, AC006006, AF038458, AC007676, AC002301, AC006012, Z82178, AC009247, AC006544, Z98304, AL021878, AC004953, AP000031, AL021546, Z83845, AC005180, AL049779, AC005800, AC005480, AP000694, AC002059, and AC004217.
HCWGE23	1225	853004	1 - 453	15 - 467	
HCWGE25	1226	657236	1 - 363	15 - 377	
HCWGE39	1227	705403	1 - 58	15 - 72	AI811654, and AJ032916.
HCWGE47	1228	925105	1 - 429	15 - 443	AC004072.
HCWGE53	1229	728249	1 - 342	15 - 356	T47041, and AC010385.
HCWGE65	1230	720349	1 - 348	15 - 362	
HCWGE73	1231	757333	1 - 198	15 - 212	
HCWGE78	1232	527557	1 - 325	15 - 339	
HCWGE92	1233	792722	1 - 273	15 - 287	AL117411, AF109126, and X99338.
HCWGF06	1234	935492	1 - 398	15 - 412	

HCWGF71	1235	1 - 436	15 - 450	AC008055.
HCWGF74	1236	1 - 231	15 - 245	
HCWGF75	1237	1 - 347	15 - 361	
HCWGF76	1238	1 - 321	15 - 335	AA719214, and AA716020.
HCWGF91	1239	1 - 141	15 - 155	
HCWGF92	1240	1 - 293	15 - 307	AW166641, AI049676, AA774098, AI668994, AI336771, AW069227, AI634187, AI457313, AA837325, AI018726, AA318652, AL037777, AL044712, AI252726, AA525332, AI369076, W26972, AI241637, AL044177, AA484651, AA598605, AI243793, AI679045, AL120004, AA588353, AA487209, AA376358, AL039761, AI017733, AW270429, T53133, AW270351, AC002381, AP000959, AC004908, AP000070, AP001053, AL078581, U89335, U52111, U85195, AE000658, AC007221, Z73913, AL049828, AC007214, AC004617, Z95152, AP000168, AL031685, AC007934, AC004584, AC005829, AL049589, AF111167, AC005587, AL109837, AL035089, AC003950, L11910, AC004787, AL121757, AC009081, AP000501, AL022345, AL022163, Z83838, AC004859, Z81010, U78027, AC005921, AC005822, AP000251, AC009405, AL049699, AJ011930, AC002091, AC003973, AC008101, AC005873, AP000030, AP000507, AP000557, AL035071, AP000555, AC006115, AC005225, AB002353, AC004796, AC006515, AL034418, AC002565, Z84474, AL021397, AC006541, AC005391, AF165141, AC003002, AC005231, AP001054, AC002543, AC005237, AC005920, AL022326, AB023049, AP000512, AL109613, AC009275, AC005666, AL049759, Z81370, AC004912, AL035422, AC005755, AP000503, AL023553, AF134726, AL031391, AL035587, AC002314, AC006277, AD000671, Z86063, AC003030, AL022320, AC004001, AL031282, AC004635, AC004466, AL009174, AC004876, Z97054, AC004812, AL096791, AL031427, Z98200, AC005184, AP000553, Z83844, and AC005089.
HCWGQ07	1241	1 - 388	15 - 402	
HCWGQ39	1242	1 - 575	15 - 589	
HCWGQ62	1243	1 - 349	15 - 363	
HCWGQ71	1244	1 - 371	15 - 385	N88113, N85682, N86592, AA092643, AA091872, and AA096089
HCWGQ80	1245	1 - 319	15 - 333	
HCWGQ84	1246	1 - 388	15 - 402	R51952, and AC005214.
HCWGR34	1247	1 - 363	15 - 377	
HCWGR43	1248	1 - 302	15 - 316	AA513238, AA526630, AI051037, AI243789, AI002810, AJ051457, AA329659, AA064815, AA707879, F07155, AA362988, AI027056, AI002207, W03818, AI581486, T91561, AA657835, AW188427, R22496, R63562, H03144, AA578358, AA328676, AA503407, AA149724, AA297006, AF053356, AC005409, AF001550, AC010205, AC004895, AL031003, AC004851, AC006211, AL078581, AL020997, Z83846, U91318, AC003684, AC007685, AC004821, AC004098, AC005914, AC004796, AC005484, AC005919, AL049869, AC005243, AL133371.

				AL031657, U85195, U07563, AP000514, AC006519, AC005358, AE000658, AC002395, AC006571, AC005082, AC004242, AL008729, AC005399, AL035695, AC005237, Z84483, AC008154, AC007566, AF002223, AP000511, AC005632, AL022238, Z98742, AC008372, AC007041, Z82215, AC008038, AC005562, AC006960, AC000085, AL035684, AP000512, AC005779, AC005516, AC004019, AF001548, AC004000, AF064861, AL022396, AC005180, AC002400, AL034451, AL133163, AC005035, AL049833, Z93783, AL022718, L78810, U91323, AC004605, AC006050, AF196779, Z83843, AC004963, AC003070, AP000045, AL132992, AL022312, AF106564, AL031662, AC005483, AL035086, AC004139, AC007225, AC003007, U80017, AL049795, AF165926, AL050318, AL008718, AL031311, AC009509, AL049780, AC005725, AC002301, AL080243, U95743, AL008718, AL031311, AC009509, AL049780, AC005725, AC002301, AC004386, AC006241, AL050348, AC000353, AC009223, AC004890, AL096761, AC004996, AC006023, AF030453, AC005531, AL049871, Z94044, Z69917, AC007376, AC005088, AC006480, Z98950, U52112, AL031431, AF205588, AL034420, AC004878, AC007919, AC005037, Z82172, AL121653, AF111167, AC002504, AL117355, AC007226, AC002350, AL023284, AC007993, AL034449, AC007199, AL109939, AC005736, AB020859, AF088219, AC004216, AC000159, AL121754, AP000509, AC016027, AC007537, AC005722, AL035091, AC016830, AC007055, AC006531, AC005529, and AC006055.
HCWGR47	1249	719518	1 - 251	15 - 265	AC007684.
HCWGR48	1250	690954	1 - 167	15 - 181	AL009177.
HCWGR69	1251	849946	1 - 422	15 - 436	T40338, AA657918, AW080134, F16127, F37169, AW265654, AA469451, AA984640, AA704643, AL041368, AL138242, AA491545, AA713767, F29989, AA649642, AI200051, AW023389, AA650434, H65428, AI355206, AA501809, AI061334, AA831388, AA525151, AW406659, AA847128, AA364224, F34795, AA601355, F23249, AA640979, AA156538, F33511, AA678436, AA491814, T63104, N27353, AA533725, AA513939, AA581903, AA649705, AA634238, AA747472, AA714453, AI824562, AA482711, AA310868, AI924251, AA604869, AA654979, AA847753, AA525406, AI963720, AA364315, AA507824, AA601892, M77895, AW104748, AW236342, AA503258, AL043721, AA703707, AA441788, AA310879, AW250970, AI963095, AI303008, W07122, M62272, AA457771, AA318652, AI982651, AA569075, AA470985, AI284640, AW088058, AI471464, F28776, F35673, H64777, AW272758, AA206935, AA604897, AA713534, AI918421, AA235575, AA768905, AI251002, AA708352, AI610159, AI344844, AA749274, AA371567, AI471487, N31557, AA515224, AA767376, AA347531, AA644551, AI962050, F27027, AI287651, AA626678, AA702614, AA745560, AA302732, AA644538, AA831599, AW265294, AA523810, H22634, AA713762, AA100372, AA603323, AA513972, AW265294, AA523810, H22634, AA713762, AA100372, AA603323, AI708009, AA713933, AI246796, AA469460, AA578017, AA613851, AI264743, AA573020, AA468022, AA640900, F23315, AA557879, AA369477, AI610920, AA683037, AI281697, AA143477, T49241, AW406447, AA632960, F36404, AA199660, F32808, AL119691,

HCWGR76	1252	778293	1 - 399	15 - 413	AW341900, AA551201, AA635067, AA601876, AA192695, AI270326, AA910125, N55273, AA535937, AA071144, AI471572, AA357987, AA557325, AI160117, AA747480, AA665021, AI523668, H96730, AI061296, AA071393, R96657, AI917271, AI633007, F36273, AA526193, AA746726, AA931647, M37551, Z30994, U22376, U57007, Z30983, X54176, Z31005, Z98885, AF087913, AL049759, AC009263, AC005839, AF015148, AC004887, M87919, M77848, AC007050, AL109839, U91326, X75335, AL121655, AC005787, AF015155, Z30979, AF192789, S77605, U14717, AL096701, S75337, AF015152, U02049, U14711, U14712, U14713, J03071, AL079295, AL109628, L44140, AP000556, AC005520, AL117258, AP000552, Z81369, M77849, AF015153, AL034401, AL078581, AF015160, U14708, Z83840, AC005740, M29322, AC020663, AC005280, AC005785, AP000117, AL022316, X67330, AP000553, AL133382, AC009516, AC006538, AC002544, AC002055, AC000951, I51997, AL031276, AC004890, AL009179, AL031229, AC003688, AL021937, AC002425, AL035535, U47924, AC007160, Z75887, AC003046, D26535, AC004463, S75201, AC005763, AL049697, AC005988, AL080248, AC000353, AC005412, AL035688, AC004263, AC006285, AC006312, AL135744, AL031732, AC004797, AF207550, AC006505, M89651, M87918, AF054569, AC006360, Z32772, AL049757, AC004859, AC007462, AC007731, AC007240, AP001045, AC006441, AC005500, Z98884, AP001052, AF111170, AC006241, AL020989, X60653, AL049829, AC006130, AC005516, AC016025, AC005102, AC004477, AP000557, AC006012, AF180475, AC005399, AC004139, AL078621, AJ011930, AP000272, AC006079, AL096774, X77859, AC005829, Z98050, Z84721, AC009946, AC007537, AC004531, AC005088, AC004224, AL035071, Z49236, AC007488, AC007360, AP000079, AC005527, AC007664, AC000004, AC002301, AL024495, AC006011, AC007382, AC006037, AL022313, AL049576, AC004645, AC002984, AC005921, AC010168, AC005105, Z86064, Z84480, AL049795, AL049569, AL132987, AC004775, AL035410, AC005370, AF015416, AC005355, AC004492, AC005257, AC006252, AF110465, AB023049, AC004808, U14719, AC003104, Z98052, Z75744, AC010582, AL035423, AC006317, AL034430, AC005920, AF024533, AC018767, AL034553, AL031255, AC005924, AC007064, AC007057, AC004050, AP000745, AC003109, AB031740, Z84474, Z97053, Z82244, AC005011, U34055, M77847, AL034379, AL008708, AC007676, AL021878, AC011604, AL049699, AL121658, AC005567, U34052, M64231, AF121781, and AL049539.
HCWGR88	1253	736056	1 - 202	15 - 216	N88601, AA247827, N84855, H58760, N84048, N83993, N84718, U39066, AF039698, AF032922, and S78798.
HCWGT45	1254	913730	1 - 691	15 - 705	N53076, T90911, D25951, AA650097, and AI801737.
HCWGT49	1255	527085	1 - 406	15 - 420	
HCWGT66	1256	531374	1 - 448	15 - 462	
HCWGU11	1257	967064	1 - 650	15 - 664	AA913734, AI056453, and AW194191.
HCWGU49	1258	674752	1 - 227	15 - 241	AA947385, AA468583, and AC005214.

HCWGU57	1259	705637	1 - 117	15 - 131	AJ078214, H77522, and AI052167.
HCWGU86	1260	666943	1 - 295	15 - 309	
HCWGW10	1261	935865	1 - 382	15 - 396	AC004590.
HCWGW12	1262	964088	1 - 426	15 - 440	N56555, N88601, AA093861, AA247827, N84048, N83993, N84855, N87989, AF045432, AJ243486, U48696, AF039698, and AF032922.
HCWGW13	1263	849911	1 - 395	15 - 409	
HCWGW32	1264	615553	1 - 448	15 - 462	
HCWGW63	1265	745091	1 - 57	15 - 71	Z69705, and AC004754.
HCWGW80	1266	742103	1 - 153	15 - 167	W07329, AI638772, AI766112, AA947305, AI684857, AF086142, and AF086126.
HCWGW85	1267	556369	1 - 265	15 - 279	
HCWGW86	1268	785506	1 - 330	15 - 344	AA584167, AA747070, AI345157, AA580808, AA493695, R95139, AW075948, AA847499, AA468022, AW275510, AA501762, AW193265, AW438643, AW302903, AW249224, AA577959, AI873852, AL042753, AI873990, AA478355, AW149313, AI872020, AI247199, AA483771, AI754658, AI350211, AI687343, AW274349, AA662225, AI583283, AI696962, AA531079, AL048925, AJ860013, AA308877, AA724333, AW303196, AI040342, AL038072, AA679532, AA224083, AA515909, AW303002, AI567076, N35602, AA507824, AI133297, AA568869, AA515334, AA847952, AI613280, AA961035, AA464456, AI270117, AW002350, AJ471887, AA321168, AA490183, AA333638, AA428792, AA524821, AA369254, N29815, AW301350, AI305766, AI972203, AI584186, AW069769, AA912099, AI932493, AA664909, AA857486, AA683258, AI281881, AI284640, AA613345, AW264934, AA504877, AA588001, AA828749, AI801482, AA169263, AW023990, AW103758, AA618903, AA661921, AI054343, AW327868, AI963720, AA483223, AA224525, AW276817, AA581903, AW270709, AA584082, AL042853, AI634384, AI865905, AL120933, AL046205, AL046205, AA469451, AW083402, AA623002, AI783494, AW270382, AA938105, AA653375, AI368256, AA469451, AW083402, AA623002, AI783494, AW270382, AA938105, AI733755, AI933534, AA812281, AA483929, AA019312, AA577906, AA584581, AW419262, AL042547, AW083364, AA167055, AA576336, AA581123, AA610491, AJ434706, AA702729, AI744995, AA682912, AA639326, AI654525, AW274346, AI866160, AI431303, AA579075, AI345654, AA719292, AA658362, AA788901, AW248803, AI445674, AA523837, AA720702, AI816141, AI002510, AL120927, AI358431, AL118991, C16397, AA846876, AA220943, AA613397, AL046409, AA192740, AI133164, AA178953, T06648, AA834792, AI110844, AA715255, T74382, AA715267, AA848134, AL120269, AI824706, AI698447, AI085719, AA478297, AL040130, AI093030, AA533762, AA584667, AI640841, R35746, AA380354, AW276710, AA745406, AA578997, AI470646, AA650376, AA581076, AA601270, AI633390, AW275971, AW301809, AI580250, AI241821, T51911, AA503015, AW118539, R02632, AA126677, AA774780, AA326372, AA533333, AI254913, H71429, AI708009, AA631507, AW168618, AI636730, AA480784, AF034184, AL119713, AW050498, Z84482, AC005028, AC002549, AC006155, AC004620, AL022329, AC005375, AL117356, AL021408, AC005768.

HCWGW95	1269	958780	1 - 451	15 - 465	AC005217, AC004453, Z83843, AC002463, AP000049, AP000311, AC011422, Z84490, AL022722, AC004386, AC005378, AC002365, AC003101, AB020873, AL080278, AC019014, AL035541, AC006975, AC004825, AC006270, AC004991, AL049869, AL031012, AC005007, AC005040, AC005829, AC008040, AC004381, AC004796, AC006287, Z69724, AF172277, AC012085, AL080285, AL049647, AL023280, AC006360, AL008634, AC007514, AC006487, AC003670, AC002480, AL034430, AL031575, AC005697, AC005668, AC007023, AC005703, AL031774, Z85987, AC005046, AC006971, Z98200, AL050343, AC005598, AL049653, Z73358, AC002395, AC002554, Z94721, AL022400, Z81365, AL109865, AC007676, AF002223, AP000248, AL023580, AF200465, AL035086, AL035634, AL035531, Z83840, AC005166, AC004949, AC002418, AC006160, AJ229042, AC005411, AC005920, AC005922, AL035091, AL080239, AL109985, AL031316, AP000228, Z84478, AL133382, AC005184, AL031595, AC016831, AL049792, AL110292, AP000140, Z92545, AB003151, Z86062, AC004979, AP000688, AP001058, AF201337, AF001549, AP000210, AP000132, AC005081, AC006478, AL132718, AC009802, AC005880, AC005183, AC003002, AP000088, AC004837, AL034350, AL035697, AL031276, AL109758, AC006165, AC004259, AC004765, Z84486, Z83820, AC004600, AC000113, AC006501, AL031427, AC007401, AL033403, AL049539, AC007014, AC005589, AC005389, AF003627, AC005245, AC005537, AC005737, AC005230, AP000967, AL136168, AC007899, AB023051, AC004948, AL020993, AL049776, AF130343, AL109963, AL133404, AC009784, AC003085, AL050333, AC007114, AC004134, AC003999, AC000114, AL109753, AC007199, AL035070, Z99495, AC005048, AL035072, AC003108, Z84488, U82828, AF007544, AC004606, AC005477, AP000512, AC006548, Z94277, AL136504, AL022100, AF015262, AL121595, AC015853, AC007425, AC004701, AJ229043, AJ006996, AC008179, AL031589, AC007463, AP000459, AC010200, AC007919, AC008078, AC005686, AC005070, AC007253, Z95116, Z95115, AC009263, AC005104, AC005207, AL049557, AL035534, AC002394, AC006027, AC003962, AL022326, AC004996, AC005242, AP000108, AL009051, AC004804, AP000494, AC009946, AC007656, AC006959, AF045555, AC005887, AP000111, AC006079, AC004593, AC009516, AC009479, AP000351, AC005534, AC008417, AC007051, AF053356, AC005997, AL096678, AP000104, AC005509, AL022399, U91324, AL022163, AC011604, AL109802, AC006441, AC006285, Z93023, AC002302, AP000043, and AC009363.
HCWGX05	1270	902512	1 - 1076	15 - 1090	AL042667, AL042670, AA642670, AL048060, AW272815, AI889995, AI753904, AA555232, AA525818, AA584360, AI310670, AI568376, AW104161, AI697235, AA533381, AA603359, AA669238, AA676592, AW192419, AI733856, AI049643, AI697239, AI697242, AI791659, AL041375, AA640305, AA298365, AA179364, AI270280, AA630476, AA324108, AI927275, AI436433, AI523540, AI434653, AA284247, AA714011, AW151247, AI310787, AI279417, AW238341, H86725, AI355246, AI801563, AI475297, N54538, AI380617, AI690379, AI755227, AI049845, AI431442, AI859368, AL036282, AI473671, AA515727, AI814750,

AI349130, AW089625, AA747234, AA085410, AW409626, AA218851, N40092, AW148964, AI719298, AI679902, AI925423, AI679394, AI678812, AA720582, AI075753, AA814503, AA490602, AA101265, N67313, AA703818, AA493947, AI360558, R99532, AA807684, AI025857, AI285493, AA419230, R51520, AA314404, AA233462, AW409621, AI278440, AI277373, AI808499, N66775, AA768079, AI800426, AI923052, AL039436, AI144125, AI567676, AW328446, AI869797, AA086042, AF118808, U52112, Z98048, AC006064, Z93023, AL096701, AC007707, AC007934, AL031680, AF124523, AC005484, U91321, AC006121, AC006328, AL050321, AF038458, AL008582, AC005280, AC007371, AF196969, AL080243, AC002037, AB000882, AC006208, AC005099, AL022721, AC004815, L78833, AC007226, AF109907, AC009247, AC004962, AL031123, AL021939, AC005089, AL031311, AC005412, AL034420, AP000513, AC007546, AC003072, AC004662, AF184110, AC005358, Z95116, AL139054, AL109801, AC008134, AF047825, AC006059, AC005971, AP000506, AC007277, AL021391, AF053356, AC004522, AC000039, AC003663, AP000512, AL049569, AL049776, Z85986, AC006344, AC002425, Z95114, AC005520, AL035681, AF146367, AC004805, AC004770, AP000348, AL109798, AC006538, AC005257, AC004963, AC003043, AC004967, AL121756, AB023051, AP000049, AC005004, AL136504, AL049843, AC004777, AC006946, AL022476, AD000092, AP000085, AC004475, AC006441, AP000311, AC005094, AC007055, AC004448, AC009464, AC007656, AP000104, Z83838, AC006449, AL133163, AC005193, AP000501, AC004655, AL022326, AC003071, AC004858, AF129756, AC007637, Z83847, AD000833, Z98946, AL049733, AC007052, AC004106, AP000555, AC005486, AL021393, AC003973, AC005288, AC005399, AC002394, Z98200, AC005619, AL022337, AC007041, AL023575, AL022327, AL031904, AL035071, AC005839, AC007688, AC005531, AC004656, AC003962, AC002565, AC005594, AC005566, AF003626, AC004009, AC005274, AL035464, AL049844, AC005841, AC000075, AC000084, AL031289, AC005663, U80017, U82828, AC006600, AC004382, AL050312, AC005664, AP000157, AP000345, AC006046, AL031427, AP000011, Z93244, AL049759, Z81364, AC008126, AC002401, AL031228, AL049795, AC003982, AL031432, AC005067, AC010205, AC004129, AC005368, AC007308, AL049780, AC003108, Z82206, AC003042, AP000346, AC003665, Z84469, AC004491, AC002126, AC006213, AL035588, U92032, AC005332, AL135960, AJ131016, AB000877, AC003950, AC009248, Z96074, AL035420, AP000247, AL050347, AC007537, AL034417, AC005006, AC002470, Z81370, AC005736, AL009181, AF205588, AL96775, AC005206, AC007030, Z86090, AC004825, AC003690, AL031599, AP000556, AB023049, AC002090, AL035683, AC006165, AC005180, AC005694, L05367, AC007225, L47234, Z93241, AC005880, AC006965, AC003956, AL031120, AL078476, AC005666, AC010200, AP000152, Z93017, AL008583, AC005667, AP000014, AC002996, AL117325, AC006080, AL132800, AC002316, AL021155, AC004953, AL021707, AC004922, AC005837, AC005924, AC005512, AP000126, AP000204, AL132826, and AL050348.

HCWGX23	1271	720486	1 - 312	15 - 326	
HCWGX41	1272	849887	1 - 343	15 - 357	AC004033, AC007731, and AC005500.
HCWGX58	1273	920693	1 - 743	15 - 757	C18732, AA634806, AA729161, and AA729860.
HCWGX68	1274	733413	1 - 115	15 - 129	
HCWGX82	1275	924102	1 - 274	15 - 288	Z95115, AC004491, AC005089, AL049843, and AC004973.
HCWGX94	1276	793197	1 - 170	15 - 184	
HCWGY02	1277	920113	1 - 348	15 - 362	
HCWGY03	1278	924208	1 - 251	15 - 265	AI183881, AW014092, AI085895, and AC007245.
HCWGY12	1279	970693	1 - 324	15 - 338	
HCWGY20	1280	669717	1 - 311	15 - 325	
HCWGY33	1281	702441	1 - 476	15 - 490	AA618172, AA632695, AL031681, AC004699, AC002565, AL133353, AL033403, AC004383, AC005562, and AC004128.
HCWGY43	1282	660568	1 - 228	15 - 242	AA716190, AA515438, AA614340, AA618172, AA632695, AI168274, AA760672, AA174138, AA135377, AA348966, T68597, AI735455, D44625, AA206028, AA747322, H17731, AL042425, AA809631, R98945, AW449193, AA226172, AA226173, H59461, AA468491, AA468952, T96546, AI734154, AI732760, AII24595, AA377927, AI240831, AI890794, R54247, R18870, R22698, AA551582, AC006511, AC004129, AF047825, AL031685, AC011331, AD000092, AC005086, AC002070, AL023096, AL031297, AC005495, AC005844, AC004984, AL034379, Z82173, AL034553, AL020997, AL031680, AC007686, AC002994, AL031178, AL021937, AL031681, AC002044, AP001053, AP000349, AC005082, AC002994, AL031178, AL021937, AL031681, AC007790, AL049575, AC004552, AC007277, AC006501, AP001068, AJ011930, AF121781, AC005609, AP000350, AL135879, AL121790, AC005280, AC005189, AL133238, AD000813, Z84466, AF001549, AC002132, AL133396, AL049844, AL035461, AL035070, AC002112, AC005620, AC006966, AL031670, AC004616, AL035703, AC009178, AL121652, AF196969, AC004079, AC001226, AF111169, AL049830, AC005003, AC005262, AB020863, Z82203, AC004098, AC004491, AP001059, AC004525, AC004682, AC009509, AP000502, AF134726, AF196972, AL133485, Z92542, AF002223, AC006160, AC004143, AF067845, and Z98304.
HCWGY64	1283	670896	1 - 233	15 - 247	AW020871.
HCWGY67	1284	861886	1 - 320	15 - 334	
HCWGY76	1285	496402	1 - 322	15 - 336	
HCWGY85	1286	917132	1 - 338	15 - 352	
HCWGY86	1287	711312	1 - 459	15 - 473	
HCWGY90	1288	960159	1 - 250	15 - 264	
HCWHA03	1289	924189	1 - 136	15 - 150	AC006468.
HCWHA09	1290	968224	1 - 157	15 - 171	AC003689.
HCWHA10	1291	961278	1 - 376	15 - 390	AA551798, H91611, AI93163S, AA593537, AA229422, T05118, AA578832, AI801649,

| | 1292 | 731770 | 1 - 179 | 15 - 193 | AA470496, T05684, AL046519, T56727, AA581525, N71619, T94072, AA583728, AA584527, AW151247, AA129272, AL041019, AL041018, AA229823, N91711, AA225100, F23338, F09355, AI355103, F31575, AA228979, AA572921, F34506, AI801563, R77715, AA504951, AA503142, R56541, AI560085, AI189682, F02248, H86579, AI114733, AI133552, N63897, AI445934, AI206841, AL047493, AA502110, AA225028, AA502532, AI340858, H62923, AA706160. AC002470, AC004757, Z30987, U47924, AL022326, AC005962, AF126403, AF109907. AC000381, AC000061, AC005332, AC004895, U52112, AC004672, AF016898, AL031447, AC006512, AL135744, AC005486, AC005516, AC007308, AC007263, Z82215, AC003962, AL078621, AC005846, Z83819, AL049830, AC007686, AP000045, AC006576, AC005231. AC007690, AC004477, AC006480, AC003108, AC005412, AF108083, AP000694, AC003030. AC004559, AC004797, AL022238, AP000510, U80017, AC005535, AL031295, AC005937. AL022336, AL035462, AF110325, AC010077, Z85994, AC001231, Z84487, AC005695. AB023048, AC004765, AP000695, AC005399, U95742, AL050341, AC005796, AC007216, AC004617, AC005839, AL049779, AP000779, AP000501, L34635, AC005180, Z99943, AP000511, AL133500, AC004674, AL049553, Z83822, AL096702, AC005261, AC005790, AC005071. AC005335, AC007192, AC007041, AC005306, AC003963, AC006001, AC004531, AC006960. AC005934, Z98749, AC005183, AC005178, AL117342, AP000687, AC002538, AL031682. AL117694, AL034420, AL034429, U85199, AC006262, AC005091, AL121603, AC004491, AC005004, AP000113, AL034429, U85195, AL121877, AF111168, AL031680, AC007676, AC003002, AL009172, AL133246, AC022517, AL023553, AP000688, AL096801, AL109627, AP001068, AL109623, AC007551, AL122020, AC005088, AC002549, AL139054, AC005288, AC007556, AL136504, M74900, AL049760, AP001067, AL096712, AC006441, AC006443, AP000133, AE000659. AE000658, AL049760, AP000692, AC004522, AC007790, AC005663, AC006236, L78810, AL035658, AC000084, AP000692, AC004522, AC007790, AC005663, AC006236, L78810, AL035658, AC008078, Z84469, AF001548, AC007934, AC004647, Z97632, AL121754, AC004216, AL078638, AC005102, AL022316, Z98742, AL049835, AL078581, AF067844, AJ011930, AC005696, Z69707, AL121655, AC004785, AC006323, Z84467, AC007639, AL022322, AL035661, AL049761, AL031291, AC004976, AC006011, Z96074, AL121757, AC009721. D88268, AC004998, AC005920, AL080243, AC004832, AP000116, AL121652, AL033524, AC004235, AC006461, AC005870, AC005215, AC005886, Z98884, Z93023, AL034421, AC004084, AC003104, AL031767, AC005763, Z93017, AC006130, AC005378, AC005365, AC005913, AC005828, U82668, AP000049, AL008639, AP000689, AC007540, AC007421, U82828, AC005358, and AC006088. |
| | 1293 | 733424 | 1 - 352 | 15 - 366 | AA192173, AA837098, AA923355, AA483125, AA461421, AA828696, T63954, AA834805, AA583978, W07032, AA494090, AI547286, N87410, AA378683, N43757, AA381665, C19058, AA450199, T28550, AI921649, AI376100, AA826144, AW074059, AA551509, AI356904, |

HCWHA84	1294	733421	1 - 306	15 - 320	AI564284, AA091395, AA344959, AA338642, AI079667, AA776936, AA776921, N26276, AI922654, C17838, AI820998, T25706, AI471374, AI254798, AI956124, AA009855, AW238325, AI056566, AA598545, N72524, AA658235, AA465321, AA659856, AI758582, N53565, AL042213, AA338193, AA804828, AA360260, AW277171, AA748826, AA093453, AA372881, F19258, AW021886, AA419263, AA559341, W35195, T63416, AA491284, AA665908, AA365492, AA507282, R99777, AA613138, AA631638, AA679009, AW029625, AA768905, AA078255, AI345121, AA767376, AA482743, AA482757, AI570138, AA364488, AW103006, AA331231, AA670158, AC004106, AB006903, U89336, AC004923, AC005095, AC005387, AC005746, AP000346, AL035458, AC006461, AC003112, AF205588, AL022336, AC007308, AB020858, AC007298, AC001066, AC005257, AL050308, L49046, AC002310, AC007649, AC003041, AL031684, AC004638, L78810, AC005358, U55184, AC006127, AC006976, AF196969, AC007312, AC006039, D32063, AC005516, AP001040, AL023574, AL049757, AC004000, M62424, AR025392, AF061786, AC005253, AC006077, AP000497, AC005971; AP000553, AC005888, AL121915, AF109907, AC004592, Z98950, AP000354, AL022343, U92023, AC006121, AC004167, AL136295, AC005866, AL132712, AL034429, AC003065, AC005033, Z68273, AC004983, AC000392, AC005480, AC004858, AC006441, AC004893, AC005180, AC005599, AC006445, AL031427, Z98941, AC004125, AL024473, AL121580, AC007845, AP000345, AL049830, AC008040, AC001231, AC007687, AL009031, Z99755, AC002326, AF017257, AC016026, AC012083, Z84466, AC006557, AL031178, AL035460, AC006312, AL031985, AC005362, AF156495, AC000387, AC006116, AL133245, AC007314, AL121603, AL049795, L78833, AC004527, AC003664, AC004542, AC006120, U00481, AC005482, AC004712, AL035405, AC004859, AP000134, AP000212, AC004802, U80017, AC006531, AC000353, AC005023, AC007030, AF196971, L81893, AL132767, AC006479, AP000135, AP000270, AL035413, AC005800, AF139813, AC002057, AC006543, AL031722, AL031846, AP000356, AF165926, AB003151, Z93020, AP000031, U95740, AF044083, AC006511, AL031782, AC002470, AC005926, AC006530, AC007319, U66061, AC005207, AC006211, AL031680, AL121655, AL034548, AC011331, Z69705, AP000359, AC016027, AP000310, AL008629, AC005277, AC005225, AC011154, AL117694, Z98051, AC007686, AC005913, AL049758, AL117328, AC016830, AL021154, AL110502, AL033376, AP000032, AC008067, AC005839, Z95400, U67817, AC004999, AC004159, AC005015, AL008639, AC004754, AC004929, U47924, AL049712, AC005921, AC004848, AC006241, AC005082, M77848, AL035684, AC006449, AL022326, AP000692, AL050332, AL133448, AC003006, AL022476, AC004862, AC002492, AC004857, M77849, AC006509, AP000252, and AL050341.
HCWHB12	1295	970688	1 - 366	15 - 380	
HCWHB32	1296	966508	1 - 411	15 - 425	AL122003.

HCWHB65	1297	711437	1 - 122	15 - 136	
HCWHB68	1298	573571	1 - 317	15 - 331	
HCWHC01	1299	849886	1 - 320	15 - 334	AW117951, N64437, AA345333, N66776, AA508509, AA669416, AA724230, AI432270, AW439480, AI358343, AW193546, AI570822, AL120502, AW243706, AI252085, R44592, Z83840, U85195, AE000658, AL109628, AJ011930, AC006449, AC005089, AL022163, AL022326, AL022238, L44140, AC000353, AC006374, AL020997, AL021707, AF196969, AF117829, AC000491, AC002381, AC002400, AC005046, AC007666, AC004671, AL049830, AL031577, AC000085, AC005565, AC002299, AL135744, AC005332, AC006211, AL121655, AL049874, AC004000, AL023807, AC005288, AC005826, AC004003, AL096701, AC007243, AC006312, AC006270, AL033525, AF042090, AC006379, AC006501, AL031737, AC020663, AP000509, U95740, AC006116, AC006285, AC004941, AF109907, AC005529, AC004895, AJ239321, AP000514, AJ246003, AC006530, AC007676, AC005212, AC004678, AP000031, AL023799, AL022281, AL121658, AL031120, U52112, AC005231, AL008718, AL034421, AC003663, AC006023, AL121652, AL035458, AC008126, AC005057, AC007277, AC004859, AL022720, AC000025, AL109847, AL133312, AL049745, AC005694, AB020868, AC002472, AC005527, AD001527, U47924, AL031668, AC002351, and AL049759.
HCWHC26	1300	950719	1 - 420	15 - 434	AI446464, AA348929, AA525824, AA503454, AI832909, AA192470, AI608626, AI436677, F19716, AI625647, AI589461, AA669251, AA045894, AI559251, N43757, C05755, AA451612, C06327, F10924, AA190911, AA446544, AA848172, AI472222, AI889781, U51696, AA338486, AL038703, AA652940, H64560, AA668639, AA744075, AA085124, AI064864, AA528519, AA074130, R78962, AI301713, AA359958, AI499134, AA243452, AW067900, R79263, AI692808, AI690698, F28576, AA347368, AL121505, AI357698, H60143, AA533450, AA669416, AA181823, W05405, AW302013, N92446, AL119984, AA954936, AI568678, AA593060, AJ921649, AI969436, AA837677, AA182038, AA648064, AA630352, N95554, AI679132, AI376100, AI569086, AA303845, AA147197, AW117750, H85382, AA834820, T11542, AI798473, AA492252, AA480784, AA528516, AA886584, AA629992, AW074059, AA443138, AI356904, AI564284, C06119, T56719, AC005288, U18396, M57427, AL008715, AC007225, AC008115, AP000503, AL132777, AC006285, AL121658, AC016025, AC004226, AC007240, AC004895, AF134726, AC005879, AP000552, AL133445, AL080243, AC005231, AL049869, U57004, AF067844, AF172277, AL008582, AC002350, AL133448, AP000347, AL122020, Z83840, AL049872, AL049636, AF088219, AC003043, AC007226, AC005730, AC003969, AC005909, AC005412, AL117356, AF165926, AC005048, AL050312, AC004853, AC002550, AJ239318, AP000042, AC003966, AL050341, AC005527, X06123, AL109802, AF090944, AC005488, AC000353, AC007676, AC006285, AC005632, AC005529, AC004019, AC006449, AL021579, AL035460, AL109653, AC000025, AL121578, AC007546, AJ006996, L49046, AP000496, AC006359, AL021368, AP000497, Z69918, AC004813, AC003013, AF015723, AC002316, AF114156, AC006211, AL009174, AL021940, AC002543, X61109, AP001138, Z97876,

					Accessions
HCWHC35	1301	706508	1 - 349	15 - 363	AL031053, U95740, U91323, AL132987, AL034548, AC005332, AC004848, AL096791, AC005783, AL020995, AC004884, AC004534, AC007242, AC005726, AC006538, AC002133, AC005324, AC005414, AC005144, AL031229, AC000379, AL031733, AC005057, Z99774, AL034375, Z93930, AP000431, AC004035, AC005362, AP000704, AJ246003, AC005821, AC005694, U62317, AC002312, AL078581, L76568, AC005793, AC005370, AC020663, AC005086, Z15025, AL078584, AL009181, AL035608, AC004230, AC007324, AC005808, AC005944, AL034343, AC007731, AC002558, AC006241, AP000355, Z95114, AP000555, AC005500, AL049776, U95742, AF124523, AF196779, AC005019, AL031846, AC007666, AL109799, U02050, L78833, AC005866, AB023052, Z98950, AC008079, AC005745, AP000289, AF196969, AP000556, Y18000, Z98752, AC004933, AC005523, AC005353, AC007216, AC005914, AC005624, Z93023, AL049829, AL031985, AC000052, AC006138, AC004522, AC005519, AL132992, AC004883, AL121825, AP000110, AC004814, AC004152, D16583, AC004076, AC004098, AL109627, AC002310, AC005913, AF053356, AC005399, AP000356, AC004695, AC006596, AC006126, Z99754, AC006162, AC004382, AC005209, AC007129, AF107885, AF019664, AC005069, Z93241, AC002526, Z84718, AC008101, AF032456, AC005668, AL078604, AL022311, AC002470, AL096701, AC004485, X77531, AC004466, AC004988, AC005725, AC004675, M13254, AL031602, AC004254, AC002395, AC004678, Z84476, S78429, Z98200, and AC005772.
HCWHC37	1302	706509	1 - 300	15 - 314	AC004983.
HCWHC50	1303	591202	1 - 537	15 - 551	AL035414.
HCWHC59	1304	964852	1 - 252	15 - 266	AI125214, H78331, N63856, and AA702824.
HCWHD07	1305	953384	1 - 438	15 - 452	
HCWHD17	1306	663865	1 - 428	15 - 442	AA019537, D58283, D80196, D80195, D80391, D51423, D59619, D80210, D51799, D80240, D80253, D80227, D80188, T03269, D80219, D59927, D80043, D80212, D81030, D80038, D80193, D80366, D80022, D59889, D80166, D80378, D59859, D59275, D80269, C14429, C14014, D80045, C75259, D80168, D80134, D59502, F13647, D80949, C14227, D57483, D80241, D59610, D81111, D58253, D51079, AW178775, AW377671, AW352158, D51097, AW360844, AW178971, AW177714, AW352171, AW179007, AW178754, AW179024, AW179020, AW177456, AW377676, AW179012, AW352174, D80290, AI557774, T11051, AW178986, AA033512, AA285331, H67858, AI525907, A62300, A62298, X67155, A67220, A84916, A25909, D26022, D34614, AJ132110, A78862, D89785, AR025207, Y17188, D88547, X68127, I82448, A85396, AR066482, AB010386, AB012117, X93549, A85477, U87250, A86792, I19525, A44171, AF135125, AR064240, Z32749, S69292, I18371, X89963, A43601, S78798, and AB033111.
HCWHD23	1307	934917	1 - 279	15 - 293	AA432091, AC005899, AL050308, AC007371, AL031005, AC005089, AC004922, AC004148, AC003982, AC005412, AC002365, and AL031311.
HCWHD68	1308	690359	1 - 394	15 - 408	AC005591.

HCWHF62	1309	582472	1 - 429	15 - 443	H66222, R16430, and T99465.
HCWHF85	1310	746745	1 - 305	15 - 319	H95605, T05617, AI630894, AA587113, AA456942, AA430652, AI918575, AL048479, AW316599, AI866377, R01574, AA223907, AI633386, AA830070, AI567391, AA021354, F30586, AA054170, AI653776, AA515129, AI336398, AW337805, AI096714, AI962030. N64807. H97510, F35689, AI905408, AW238212, AA018617, AA838192, AI921765, AA214227. AW082104, AL096701, AC005280, AC016027, AC016830, AF047825, Z84469, AF036405, AL031651, AL035458, AC004150, AL031447, AP000962, AC000024, D87011, AF124523, AC004821, AD000684, AC006121, AC002394, AC004253, AC005482, AL109798, AL132774, AC006130, Z68165, AL049766, AC002425, AL132987, Z97056, AC003003, AL035400, AL031681, AL034420, AC006512, Z82193, AL033527, AC004477, AC007308, AL049713, AC005881, AC004884, AC002551, AL031577, AP000503, AC005736, AC007970, AF165926, AC007225, AF084941, AL031659, AC005874, AF134471, AF134726, AC005011, AC006441, AC006552, AC007536, AR036572, U91328, Z85987, AC004605, AC004259, Y11107, AL008707, AC006946, AC004600, AL031685, AL024498, AC007191, AF196972, AC006241, AC006023, AF064861, AC004554, AC006536, AC000052, AL031680, AC003982, AC002470, AC002300, AC005410, AL049777, AC004019, Z85986, AF111170, AC004938, Z94801, AL023575, AC005089, AL022336, AC005048, AC005837, U91323, AL096712, AC004031, AL049540, AL049765, AC000120, Z98051, AL049760, AL031431, AC004616, AC006312, U95090, AC004386, AC002314, AL008718, AC005368, Z75890, AC004643, AL110292, AF109907, AC003043, AC007381, Z98200, AL031596, AC005037, AF048729, AF001550, AC007731, AC005726, AC005500, AC004858, AC003108, AF118808, AC004491, AF015416, AC006487, AC005225, AP000555, AC005856, AC006115, AC007052, AP000365, AL109758, AC005091, AC002430, AC000003, AC005920, AP000303, AC004851, AC004878, L17395, AJ011930, AC006509, Z73417, AC006328, and AC020663.
HCWHJ15	1311	968379	1 - 129	15 - 143	AC009248.
HCWHJ25	1312	686712	1 - 340	15 - 354	AA488432, AA829225, AA458804, AA364315, AI744739, AL041706, AI053644, AA362917, AA528725, AA720702, F28122, H57509, AA654968, AA146625, F33121, AA630362, AA988870, AI051230, AI056964, R99168, R77905, AI460390, AC007387, U95090, AL109654, AL135783, S41998, AC006536, AC007057, AL049872, AP000556, AC011592, AC006441, AP000552, Z85986, AF109907, AP000275, AC002350, AP000105, AP000037, AC006130, AC005694, AC006057, AC004858, AL117338, AC005527, AC004659, AL109984, AC006121, AC008134, AL021394, AL031005, AL110502, AC004531, AL035458, L44140, AC005512, AP000692, AC000052, AC007537, AC005529, AC002289, AC006285, AC006502, AL034451, AC004019, AL135879, AL121790, AC005529, AC002448, AP000115, AL022316, AL020993, AC007011, AC002288, AL133448, AL031587, AL022320, AL121653, AL021878, AC005324, AL133382, AF042090, AL049797, AC007536, AC005330, AL096701, AL021453, AC008064, AL022726, AC006255, AL050323. AC001226, AC005330,

HCWHJ48	1313	721816	1 - 340	15 - 354	AL049843, AC006512, AL050318, AF061779, AL022238, AP000114, and AP000046.
HCWHJ53	1314	693313	1 - 411	15 - 425	AC008101, AC008079, AC016027, and AC016830. AA344959, AA831388, AA526193, AW408063, AA483043, AA365571, AA565700, AA302952, AA301813, AI249688, W07122, T41134, AA327572, H12972, AA063426, AA744025, AA516225, AA341120, AI963720, AI355206, R66407, AW019964, AI754105, AA702206, AI198376, AA227162, H59856, AA720746, AI038304, AA610491, AA384039, AA847029, AA737150, AI754567, AI569100, AW192599, AA368329, AI061334, AI755214, AL044000, AI708005, AI061313, AI928790, AA365520, AI569510, AI244356, AI080307, AI678392, AI624698, AA594725, AI281431, AW131356, AA804993, AA828704, AI912322, AA579184, AA747889, N54179, AA298387, H65439, AI886365, AA526755, AW265654, AI921317, N55476, D58782, AA364315, AA757743, AI860020, AA838479, T57604, H72666, C05999, AA838477, AI889794, AA633175, AL120343, AL049795, AC005399, AC004983, AL121653, AL021808, AC005225, Z69921, AC004797, AL132987, AC006459, AP000214, U02057, AL035071, AL049776, AL033392, AF165926, AC007216, AF111168, AC004910, AC005104, AL022320, AB003151, AC005252, AF109907, AC005089, D83737, AL121657, AL023803, AC004460, AL008630, AC004890, AC003101, AC002425, AC002377, AC004470, AL031846, AL031296, AC005231, AC005874, AF134471, AC007738, AC000353, AP000255, AC006312, AF129756, AC020663, AP000354, AC007227, AL049766, AC004400, AF001549, AP000105, AP000037, AP000031, AC004854, AF196969, AC005071, AC007371, AL022158, AC004972, AC006538, AC006047, AC002523, M87914, AC005081, AP000135, U89337, Z93244, AC005772, AC006441, AC005899, M87918, AL022238, AP000692, AC004496, AC003108, Z98050, L78833, AF026069, AP000555, AB017602, AC011362, AC006077, AL031729, Z99128, AP000689, AL031255, AL080243, AF019413, U57007, AL023807, AC004019, AC006111, AL050318, AC005520, AC004463, AC006285, AC002400, AL078639, AC007285, AC007225, AC004259, AC007546, AP000513, AC004812, AC004600, AL034420, AC016025, AF196779, Z97055, AP000509, AP000251, AL034429, AC004216, Z99496, AC006271, AL031005, AC005796, AB015355, AL109759, AC004605, AC004929, AF045555, AC004859, AL049761, AC004841, AC004821, AC006953, AC007263, AL035415, AC007537, AC000052, AL049709, AC005393, AC005839, AC002553, U63630, AC007899, AB023049, AF053356, AC004770, Z93017, AP000141, AP000089, AC004408, AC007308, U07563, AC004066, AL035072, AL121603, AL022325, AC006160, AC005588, AC004585, AC004477, AL034417, AC002126, AL035681, AL121655, AC005768, AC002470, AL035587, AL035448, Z92540, AL023574, AC002997, U73638, AC004973, Z83826, AC002115, AP000512, AC006468, AC002404, AC003070, U66060, AP000211, AP000133, AP000030, U02058, U66061, AC007160, AC003104, AC007533, AL121825, AC007688, Z82176, AL008721, AL049760, AC007064, D26067, AL078476, AL121825, AC006059, AP000688, AL031428, AP000009, AC006138, AC004802, AP000695, L78810, AC006059, L78810, AC006059, AC005940, AC004242, AC005747, AC004195, AC007666, AF207550, U91326, AP000350, AC005940, AC004242, AC005747,

HCWHJSS	1315	861884	1 - 719	15 - 733	AC006515, AF015155, Z98048, AP000556, AC005668, AC004211, AP000275, AL035659, AL035405, AC005146, AC005370, AL034401, AC006013, AC002985, AC004383, AL021977, AL049713, AL136504, AC005207, AL133485, AC005539, AC004858, AC004771, AC004918, AL049636, and AC005837. AI076616, AL045053, N48230, AL138265, AA138265, AA130901, AI053790, AL042853, AI355206, AA581903, AA722372, AI963720, AA846876, AL119691, AA584201, AI817516, AW440545, AI374809, AW102955, AA468022, AI951863, AW265393, AL046409, AA877817, AI457397, AI284640, AA126035, AL046205, AW088846, AI732865, AW274349, AA507824, AL042420, AL040921, AW008212, AI305547, AI708009, AA468131, AI357901, AA703887, AA720702, AI281881, AI270117, F28204, AI312309, AA812139, H08791, AA584195, AA521399, AA623002, AA521323, AI345157, AA515829, AW163293, AI334443, AW021583, AA610491, AA501809, AW169151, AA837677, AW327868, AI956124, AA493471, AI871722, AA491284, AI204304, AI801482, AA490183, AA480772, AW238278, AA311319, AA587604, AI696962, AA515549, AL037683, AA610271, AA126051, AI254316, N94311, AW406447, AI431303, AI133164, AA349366, AW303196, AW265385, AW407578, AA657918, AI445582, AA503473, AL041690, AA478355, AA599480, AL038072, AL038705, AW301350, AW304584, AW270382, AW193265, AW103758, AI368256, AW439558, AI345518, AI471481, AI368745, AL044940, AW062682, AA514854, AL046457, AW028392, AW131249, AI744188, AW020340, AA491814, AA503475, AL138455, AI860020, AA846760, AA703820, N92756, AI133262, AI865905, AI207401, AI799642, AI267818, AI625244, AA569471, AI307608, AI969436, AI2499997, AA576336, AW419262, M77974, AI282832, AI370074, AW270270, AA719292, AW410400, AA572713, AA579366, AL119984, AI559705, AA533333, AA908687, AA533036, AA523837, AI580652, AI376100, AI921649, AI890348, AA483223, AI471543, AI053606, AI745325, AI640409, AA631507, AW276817, AI613280, AA515909, N53150, AI608771, AA613203, AI754955, AA531372, AA665021, AI370094, AA349854, T41259, AI564284, AW023672, AA828704, AA502104, AI537955, AI345654, AI538433, AI568678, AA488395, AL048626, AI251436, AW302903, AW302909, AA584082, AI017415, AI538852, AA583955, AA513850, AL119649, AW276827, AL120483, AI370977, AA584145, AA079462, AI061334, AA679514, AA630362, AW072923, AA470969, AA947360, AW302013, AW088202, AA522942, AA714453, AA683258, AI792287, AA781975, AW069769, AA558656, N76673, AI912322, AC000353, AC005332, AC005295, AC004929, U91321, AC008115, AF053356, AC006312, AF045555, AC002565, AC007225, AC007226, AC005529, AC003007, AC003007, U63721, AC005696, AL049776, AP000112, AC005072, AL109802, AC007191, AC002045, AP000113, AC007666, AC005412, AC002470, AL121655, U78027, AC007151, AP000045, AP000113, Z99716, AL049712, AL022165, AC004167, Z98044, AC006449, AC004967, AF038458, Z99716, AL031311, AC005089, AC007685, AC006111, AF006752, AC006480, AC004099, U95742, AL031311, AC005015, AL096701, AC005291, AC006130, AL132712, AC005911, U47924, Z97054, AC005015, AL096701, AC005291, AC006130,

HCWHJ75	1316	786019	1 - 398	15 - 412	
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AA521323, AI358343, AA747276, AI783494, AI355206, AA503015, N27584,
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AI499503, AA584752, AI623720, AI298710, AW079135, AL048925, AW072923, AA521399,
AW408717, AI568678, AI085719, AI143242, AI079645, C05986, AA584201, AI890923,
AI053790, U51696, AI718446, AI755214, AI917271, AI251002, AI357551, AI951889, AA877817,
AI379719, AI289067, AJ799642, AW062724, AW265009, AL037683, AI821271, AW020992,
AI469968, AI299050, AI754567, AA491284, AA669840, AL042420, AI610376, AI733856,
AA623002, AI951928, AI357288, AA846876, AI754105, AI341664, AI859742, AW070892,
AI344844, AJ956131, AI890918, AI623696, AA806796, AI571512, AL046205, AI341548,
AL046898, AA714453, AL040130, AI307608, AI885572, AI634187, AI688846, AL041690,
AW068202, C05755, AI589230, AW339687, AI919265, N35896, AW304584, W79504,
AW193432, AA661948, AL037850, AA525190, AA513141, AI679045, AI307201, AA164251,
AW089322, AA630362, AA468022, AW271904, AA908687, AI370878, AW072587, H71429,
AA584148, AA613227, AI133102, AA493708, AI564185, AI475569, AW276817, AI375710,
AA768905, AI039790, AA653618, AI434695, AI286356, AI340453, AF060568, AC001234,
AL109758, AF038458, AL096701, S75201, AC007919, AL078581, AF015160, AF134726,
AC004650, AF015148, AL035552, D83989, I51997, AF015167, U12584, U12580, AC007934,
AL031670, X54180, AF015151, U57007, AL122003, U02531, AC007051, AF015156, AL132712,
AC005484, AP000503, U18395, AF015158, AF077058, M37551, AP000114, AF015152, U66059,
AR036572, U91328, U18396, AL022721, AL121652, AC003029, U18393, AF015149, U12582,
AC005907, AC005529, AL021937, AL136295, U57009, U18391, U18394, U11309, AL031286,
AC007786, Z84814, U66060, X55925, AC004884, AF015157, Z94801, U02532, X55926, X53550,
AL132800, AC005535, X75335, U57005, U67221, AC005696, AC008101, U57006, AL031681,
U18398, AC002463, AC006548, U18392, AC016830, AL031584, X74558, AC007298, AC005215,
AL031777, AL049552, X54175, AL031228, AP000513, AC004895, AC007043, AC004832,
AC006277, AL021155, AP000497, X54181, AP000557, X54178, AL035587, AL022147,
AL117258, AC006138, AL121694, AC007731, AL035072, AC005500, U75931, AF001552,
X55924, AL035413, AC005523, AF015166, AF015153, AF001549, AF015147, U57004,
AC005848, AC005768, AC006450, AC002038, AL050318, U18399, X54176, Z83840, AC005406,
X54177, AC006120, Y18000, AC006480, AL049829, U18387, AC000353, AC004975, AC006026,
U03115, Z95116, AL078463, AL023882, AC004408, U57008, X55932, AL133371, AC006205,
AL008728, U80017, L78833, AC005632, Z49816, AL008718, AP000244, AC005482, AL024509,
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AC005548, AC004963, AC004491, AC006292, AC005839, AC004637, AC007326, U47924,
AC004381, AL049766, M87919, AC004638, AC022517, AF015170, AC002430, AC007488,
AC007510, Z97183, AC007193, AF121781, AL023284, AB023052, AP000359, AC004799,
AC006203, AF190465, AC007384, AC004152, AC005046, AC007514, AC004592, AL022323,

HCWHJ91	1317	674157	1 - 400	15 - 414	AC002476, AL121603, U18390, Z22650, S56773, AC004940, AL049562, AL049845, U95742, AL034420, AL031432, AC005722, AC002452, AP001053, AC004987, X54179, AC000118, AC006285, AC006512, AC002994, AC005007, AC005031, Z86090, AC005245, AC018769, AL008726, AC004857, AP000238, AL021397, Z98046, AP000459, AC000159, L35531, AL049745, AC007216, U50871, AC004000, AP000143, Z97181, AP000692, AC010722, AC005699, U91326, AL031224, AC004941, AC006001, AC006251, AC006486, AF031078, AP000134, AP000212, AP000030, AL049544, AL008709, Z74696, AC007099, AC002041, AC005563, and AL021977.
HCWHL11	1318	967057	1 - 403	15 - 417	AC005605, AC004908, and AC005604.
HCWHL36	1319	465250	1 - 481	15 - 495	W72636, and AA737484.
HCWHL42	1320	959894	1 - 422	15 - 436	AI280574, AI554725, AI436330, AA477517, AA533054, AA213590, AW150387, AA659832, AL040374, T78072, AA663074, AI049931, AC008127, AC013417, AC005726, AC005488, AP000008, AP000704, AC006486, AL022329, AL133396, AF031078, AC006014, AF030876, U73167, U90094, AL008635, AC005924, AL031255, AL035697, AL109758, AC004477, AC007687, Z97053, AC004797, AL031597, AC003665, AC005873, Z92546, Z83844, AL031284, AC002301, AC007899, AL121654, AL133448, AC000035, AC005383, AC003962, AC000044, AL035079, AC005237, AC000034, AC004448, AP000353, AC002425, AC006143, Z82190, AL135783, Z84572, AC008055, AF205588, AC002352, AC004813, AF179633, AL022326, and AC005529.
HCWHL73	1321	960097	1 - 539	15 - 553	AA219247.
HCWHL89	1322	754087	1 - 127	15 - 141	
HCWHN05	1323	849885	1 - 363	15 - 377	
HCWHN28	1324	529654	1 - 318	15 - 332	
HCWHO38	1325	573533	1 - 413	15 - 427	
HCWHO45	1326	717807	1 - 436	15 - 450	
HCWHO78	1327	960180	1 - 337	15 - 351	
HCWHO93	1328	924109	1 - 381	15 - 395	AL121852.
HCWHP06	1329	935483	1 - 288	15 - 302	AA729468, R10107, W89152, AA383903, W88647, AJ910620, AI241829, AA348884, AI473501, AI538106, N77986, W67486, AW198103, H54411, AA320684, N73349, W67485, AI352089, H67251, R99079, AI362519, AA054355, AA583390, AI654404, AA831624, H71523, T83076, R09897, AI149236, AA767864, T95920, AI032114, AI061577, AA045892, AA491889, R34073, AI884375, AI267544, AA515929, W87421, AA297443, AA077228, AI472070, AI479070, AI287788, AA831638, AI824558, AA655007, H12182, AI004220, AA100325, AI275725, AA651647, AW338697, F07225, AI523875, H75392, T89763, AJ808173, AII25633, AA582060, AA745570, AA311509, AA669734, AI559178, AA547979, AW051628, AA176125, AA363250,

HCWHP25	1330	881285	1 - 638	15 - 652	AA348602, W96277, AA020873, AA193241, AA702222, AA701593, AA451720, AI912614, AW247389, AW131101, H65880, AI034370, AA404276, AA744496, R02526, AI889452, AC006430, U07562, AC003010, AF030453, Z83822, AF196970, AC006463. AC006117, AC002126, AC006071, AC006312, AC005544, Z95116, AC005081, AC021155, AC004197, AL035659, AP000692, AC005088, AC004143, AB003151, AC006277, AC006474, AC005768, AC006213, AL109758, AL021878, AC005355, AC004408, AC002470, AL031587, AC002565, AL096791, Z93017, AP000695, AC005095, AL117354, AC006137, AL031983, AL121658, AC007308, AF190631, AC004196, AC004560, AC005183, Z93023, AL023553, AC013417, AC007656, AL135783, AC005015, AF111169, AC022517, AP000696, AC004821, AL122023, AC005932, Z68162, Z73900, AB015355, AF001548, AC004587, AC005102, AC004890, AC006987, Z98304, AC005911, AC008039, AC005291, U96409, U91321, U62293, U63721, AC002477, AP000689, AL078477, AC005730, AF127034, AL121653, AC004671, AL049760, AC006039, AF129756, AL031729, AC004832, AL096701, AD001527, AL035683, AC005529, AP000247, AB016243, AC005057, AL049709, AC005067, AL023807, AL109952, AL049872, AC005821, AC005367, AF045555, AC005519, AL031311, AC003003, AC002350, AF064477, AP000130, AP000208, AC003695, AP000688, AC007993, K03556, M15365, AL022328, AC000003, AL035457, AL133382, Z46773, AC007327, AC004491, AC004534, AC004854, AP000503, AP000099, AP000704, AP000338, Z98950, AC002349, AL137100, AC004991, AC005288, AC012384, AC002454, AC005023, AL135745, AC005356, AF070718, AP000556, AP000557, AP000216, AF009251, AC003104, AL031296, AC002542, AC004876, AC004217, AC006077, AC003663, U09367, AC006948, AF111168, AP000313, M33320, AP000036, AC002097, AL022728, AF072711, and AC005782.
HCWHP40	1331	577691	1 - 382	15 - 396	AA203553, AA004349, AA678315, AA507179, R08030, R08080, and AW366361.
HCWHP44	1332	705392	1 - 114	15 - 128	AA702353.
HCWHP70	1333	711476	1 - 300	15 - 314	AC007199.
HCWHP74	1334	598510	1 - 423	15 - 437	AI350663, AI016289, AL037105, RS9942, AA019396, AP000017, and AP000158.
HCWHP84	1335	849900	1 - 441	15 - 455	
HCWHQ03	1336	924187	1 - 347	15 - 361	AL110456, and AA326002.
HCWHQ31	1337	574945	1 - 416	15 - 430	
HCWHQ82	1338	677186	1 - 439	15 - 453	H98124.
HCWHR01	1339	916526	1 - 422	15 - 436	
HCWHR09	1340	542336	1 - 374	15 - 388	AC005752.
HCWHR59	1341	739293	1 - 572	15 - 586	AW207505.
HCWHR77	1342	729850	1 - 331	15 - 345	
HCWHR81	1343	935419	1 - 359	15 - 373	

| HCWHS13 | 1344 | 657230 | 1 - 256 | 15 - 270 | AI368745, N43757, AA593060, AI547286, AW088202, AA365347, AA501600, AW080134, M86058, C18360, C18357, AA450199, AA344959, AA513999, AA658235, AI921649, N71557, AA377730, AI376100, AI372413, AW074059, AI356904, AI564284, AA723017, AA856981, AA653964, F29989, AL042213, AA634855, C19058, AA828680, AA338642, AA711815, AI079667, AI205126, AA594725, AA301813, AI453383, AI889781, AI929531, AA828704, C17838, AI679782, AL120674, AW162049, AW020340, AA715362, AA384502, AL119391, AI216799, AA502103, AA634227, AA482711, AI962050, AI956124, AA229785, AI251002, U51696, AI567674, AA025083, AA515051, AW029038, AW023672, AA642060, AW166815, AW265294, AW131034, AI358229, AI904894, N53150, AA635368, AA310158, AI917271, AA826303, AA428414, AI339850, AI064952, F31204, AI921673, AA829106, AA297744, AI133636, AI608626, AI890923, AA503947, AL138265, AW406755, AA669416, AA365571, AL038785, F37286, AI365988, AW440836, AI821028, AJ821279, AA228471, AA419263, AA581903, AA886584, AI469003, AW339687, AI922840, AA469451, AA318652, AI635272, AI886365, AI744188, AI890928, AI250284, AI049722, AI537955, AA515128, AI890570, AA804828, AJ017024, AA584201, AA350859, C06458, AI446464, AA551509, AA483068, AJ918421, AA486680, AA484059, W60516, T49751, AA345333, AI625244, AW173651, AJ610159, AL041368, AI418391, AI282832, AA302308, AA649642, AA598824, AW338500, T28550, AA085124, AA493768, AA372478, AI193007, F36273, AA320748, AI357551, AI343137, AL042853, AW084253, AI284640, AA515435, AL041412, AW440976, AI940546, AW339568, AI859742, AW236342, AA362395, AA626678, AW175641, W07032, AA320113, AI963600, AA465321, AI143242, AA663634, F28576, AA639250, N66026, T29180, AL039309, AI298710, AA558697, AI305547, AI569086, AI922654, AW169151, AA558857, F23274, AA309841, F34826, AI471464, AW079659, F19258, H64777, T06556, AW419118, AA669251, AA148489, AI471487, AA364456, AF039185, AI053672, AW406659, AA634146, AA127191, AL046409, AA502963, AJ064864, AA503284, AI471481, AA678616, H78195, AL133723, AI471572, AA177061, AW410400, AP000311, AC007628, AP000049, AL031846, AC002067, AP001040, AP000152, U14718, AC004853, AC005565, AC004592, U14719, AF017257, AC005866, U14715, U14717, AL121603, AL031782, Z86062, AL049830, AL133246, U14716, U14713, U14711, U14712, U14698, AC008055, AF111168, AC006241, AC010197, AC002410, AC004647, AJ229042, AC006597, AL031655, AC004796, AC002073, AC005291, AL078603, Z99755, AP000193, AP000497, AC006511, AC002432, U14706, AC004150, AC002542, Z86061, AC003002, Z99916, AL109941, AP000117, AP000354, AP000954, AC005589, AF015160, AC005221, AC003084, AC005166, AC007077, AC004804, M62424, AR025392, X13794, AC005099, AC007536, AF064863, AP000116, AP000011, AC003985, AC008126, AC004771, AC006221, S75337, AC007870, AC004981, AC007392, AC005888, AC004949, AL021918, AL132718, AC006384, AC007385, AL049613, AC002485, U95740, AC006561, AL021940, AC004638, AL109799, AC002124, AP001172, AP000519. |

HCWHS28	1345	675051	1 - 309	15 - 323	AB023056, AL031120, AC004750, L29292, AC004741, AC004915, AC004408, AP000230, AP000144, AC004677, AF126403, AF015163, AC006972, AL031427, AC003101, AL049642, AL021878, AC007320, AC004941, AF165926, AL096771, AL023877, AC003001, AF131217, Z68328, AC004066, AC004027, AP000050, X67277, AC002302, AP000359, AC004808, Z84719, U47924, AF109076, AC004785, AC003088, AC007285, AC005619, AL109984, Z74696, AC005154, AF015167, Z92540, AL034549, AB019438, AF015171, AP000566, AL031653, AF109907, AC000392, Z82203, AL009177, AL132987, A91686, AC004662, AC005207, AL031733, AL049633, AP000958, AL121694, AC002492, AC009731, AL121652, AF029308, AC005156, AP000352, AC006518, AC004168, AC005944, AF015170, AL049777, AC005593, AC007317, AL022163, AF045555, AC004837, AC005081, AC005040, AL135746, AC005694, AF067844, AC004593, AC005144, AC002462, Z98941, AC005399, AC007687, AC004019, AF030876, Z97196, U14701, U14695, U14705, AL031905, AL031121, AC002456, Z73986, AC007319, AC005194, AC005542, AC007684, U14691, U14699, U14685, U14686, U14690, U14710, AL023281, AL050305, AC009263, Y18000, AP000966, AP000695, AC006374, AL133355, AP000555, AC006312, AC005599, AL035417, AC004884, AC004712, AB020868, AL022395, AC002350, AC005041, AC006480, AP000350, AC000062, AP000356, Z95113, AL033381, AF015162, AC007228, Z68881, AC005703, AC004228, AL049589, AL035427, AC005046, AC005043, AP000014, AC004760, U12583, AC003015, Z84470, AC005251, AC005412, AC007917, AL008706, AC005722, AC007114, AC005484, AC003998, AC006512, and AL033525.
HCWHS77	1346	861875	1 - 337	15 - 351	AC004854.
HCWHT50	1347	527542	1 - 475	15 - 489	
HCWHT56	1348	849979	1 - 353	15 - 367	AC004542, AL049694, AC006112, AL121694, and Z84474.
HCWHT59	1349	924105	1 - 320	15 - 334	
HCWHU22	1350	849878	1 - 330	15 - 344	AB033063, and AR065869.
HCWHU30	1351	974485	1 - 392	15 - 406	N88601, N84855, AA095359, H58760, AA096046, N89520, N83168, AA247964, N83992, AA247827, N83991, N88782, N84048, AA093224, AA096066, AA095641, N84830, N84718, N86694, N87989, AA471338, N55698, N84712, N83993, N88518, N84829, N88496, N87898, AF102850, AF039698, AR066487, AF103726, S78798, U48696, AF045432, U39066, AF032922, and AJ243486.
HCWHU47	1352	720340	1 - 306	15 - 320	AI075000, AL049869, AL109623, AC005680, AC004685, AC005233, AC004014, AC000097, AC006547, AC005187, AC007021, and AL035665.
HCWHU52	1353	726054	1 - 163	15 - 177	
HCWHU54	1354	727314	1 - 131	15 - 145	
HCWHU58	1355	736052	1 - 309	15 - 323	
HCWHV11	1356	964996	1 - 254	15 - 268	AW243834, AI014798, AI332671, AI590042, and AI679747.

HCWHV18	1357.	466511	1 - 329	15 - 343	
HCWHV28.	1358	686710	1 - 522	15 - 536	T80701, and AL034551.
HCWHV33	1359	702437	1 - 243	15 - 257	
HCWHV41	1360	960157	1 - 331	15 - 345	R86114, AI383589, R56101, AI801563, AI500151, AI866422, AI547110, AA338474, AI754257, AI580480, AI744817, AL044701, AA862218, AI553670, AA586474, R26871, AI797998, AA633804, AW265468, AI002786, N52274, AI446424, AA493808, AI057560, AI445699, AI631299, AW021674, R22196, AW082556, AI702049, AW148821, AW410844, AL022329, AC005037, AL034343, AL049776, AC005914, AC005666, AC002369, AC005874, AF134471, AL021939, AL109865, AL034420, AL031287, AC006130, AC007051, AC007919, AC005537, AL109628, AL078638, AC009241, AC006013, AL009179, AC005776, Z95114, AC004139, AL034371, Z97181, Z85987, AC005747, AC007358, AC002310, AL034351, AC005562, AC012085, AL009181, AC004963, AC007376, AC004996, AC006237, AC006006, AF111169, AC006539, Z75887, Z94802, AC007541, AL133448, AL133163, AL132641, AL021918, AC004859, AL008710, AC006966, AC004812, AP000402, Z83822, AC006014, AL121756, AF031078, AC005701, AL121652, D87675, AL035425, AL035461, AL121603, AF030876, AL031767, AL035249, U78027, AC002352, AL009172, AP001054, AL135744, AC005503, AC000372, AL035422, AJ003147, AC004675, AC005763, Z99570, AC002477, AC004525, AC003042, AC006511, AL031584, AL021808, AF088219, AC005921, AC004099, AC007533, AC002395, Z69890, AC004686, AL049839, AC005602, AC000088, AC003965, AC005488, AC000071, AC004517, AC004858, AC005082, AC002559, AC004079, AP000501, Z82901, AC006455, AC005969, AL132992, AF165926, AC000405, AC004854, AL109963, AL034423, AL031575, AL050306, AL022476, AC005004, AC002429, AP000289, Z99714, Z98950, AC004900, AP000042, AP000110, AL020997, AL080243, AP000142, AL022328, AC003109, AL049636, Z93241, AC012627, AF109907, AL049759, AL022302, AC007666, AC002544, AC006977, AF190465, AL031311, AC005759, AC004223, M97911, AL139054, AC006468, AC002476, AC004913, AC005221, AC005225, AC004815, AC004924, AL049569, AL049713, AP000347, AL022576, AC004857, AL035587, AP000694, AC020663, AC004583, AC005067, AC009516, Z97183, AC000052, AL031985, AB023048, AC005233, AC007686, AP000346, AC006023, AF047825, AL021407, AC006948, AL079303, AC002094, AL117352, AC002542, AF197228, AC004887, AC005695, AC007537, AC005746, AC005291, U85195, AC005015, AF111167, AC010722, AC004797, U91326, AC004148, AC005355, and AC004453.
HCWHV61	1361.	849983	1 - 410	15 - 424	
HCWHV64	1362	770049	1 - 407	15 - 421	AA059296.
HCWHV66	1363	923527	1 - 505	15 - 519	
HCWHV71	1364	917274	1 - 489	15 - 503	
HCWHV94	1365	953379	1 - 360	15 - 374	

HCWHW32	1366	861905	1 - 546	15 - 560	AA629679, AF111168, AF207550, AP000501, and AF111167.
HCWHW38	1367	722213	1 - 286	15 - 300	
HCWHW83	1368	841937	1 - 558	15 - 572	AW023111, AA533054, AL048002, AI281818, H71678, AW150387, AW151247, AA069729, AI791659, AA515728, AW237905, H69523, AA706495, AI742168, AA315361, AA772906, H29914, AI446259, AI192440, AW245354, AA984920, AA601728, AA584756, AA284247, AW104163, AL040374, AW265688, AA837035, AI310464, AI821931, AP000210, AP000132, AP000248, AC003962, AC010170, AL049589, AP000030, AL133246, U91321, AC004966, AC004938, AL035400, AC005921, AC007308, AL031447, AP000503, AC006515, AL080317, AC000353, AL096791, U95090, AF134726, AL035071, AL035405, AC007052, AC009516, AL021546, AC006965, AJ003147, AC006312, AC003684, AL117258, AC005318, AL021069, AC004797, AB000882, AC005046, AF047825, Z83826, AL008730, AC007546, AC006581, AF001548, AC004764, AC006468, AF129756, AL031427, AC006480, AL031668, AF109907, AP000692, AC002310, AC007690, AL031427(?)... AL022322, AP000557, AL022171, AC035089, AL117694, AP000038, AC002404, AC005086, AL024498, AC004156, AL035089, AC004882, AC003108, Z83308, AC005529, U52112, AC008040, AC006455, AL031428, Z85987, AP000350, AF064861, Z98946, U50871, Z82189, AL035681, Z82215, AC005527, AC008055, AL008729, AL022318, AC016025, AC005288, AC005666, AP000311, AC020663, AL109627, AC008372, AC002477, AC005722, AC003038, AC007057, AL049872, AL096766, AP000558, AC006130, AL133243, AC005907, AC005513, AC005914, AC005015, U47924, AC004686, AL031255, AC004000, AL049775, AC004228, AC004253, AF117829, AC006023, Z82201, AC005736, AC006571, X55448, AL024507, AC006080, AF155238, AL049843, AC006449, AC004525, AL049780, AC004796, AC004656, AC007450, AD000812, AP000049, AL049694, AP000553, AC006262, AP000251, AC004143, Y10196, AC005971, AC006441, AC005180, AC007172, AL035683, AL021808, AP000212, AL021707, AL050305, AC006441, AC004601, L44140, AC004585, AC004832, AC007376, AL021807, AP000134, AC002375, AC005684, AP000355, AL035079, AC004491, AC007999, AL034548, AC004887, AC002126, AC005684, AP000208, AC006121, AL096701, AC006111, AC002301, AL034420, AF139813, AC005220, AP000208, AC006121, AL096701, AC006111, AC002301, U52111, AC006208, AC004131, AL021155, AP000247, AC004662, AC007536, AC006317, AL031588, AC005839, AC007537, AC004883, AC004263, AL049869, AC005070, AL022313, AL035086, Z97876, Z97353, AC007055, AC005516, AC005412, AL035420, AC002045, AP000359, Z95114, U95740, AC005229, Z83838, Z85986, AC005740, AC003042, AC005632, AC007292, AC007226, AC006271, AL035684, AL031311, AC005484, U91326, AC004125, AL022476, AL031663, Z93241, AC005874, AF134471, AL031133, AL049636, AC005899, AC007541, AC007845, AB026898, AL035697, AC007242, and AP000688.
HCWHX08	1369	959456	1 - 439	15 - 453	AA605123, AI963720, AI251436, F18638, AA482711, AI061334, AI352078, AI344844, AA493219, AI355206, AI962050, AA843450, AI921649, N43757, AA829106, AI624698,

AA489775, C06327, AA828704, AA581903, AW023672, AA502103, AA665330, AI860020,
AA226305, N54894, F30933, AI017415, AA503015, AL138265, AI376100, AL042853,
AW242109, AW303196, AW274349, AI053623, AI956124, AA661948, C05755, AA621704,
AW301350, AA468022, AI904894, AI564284, AA348929, AA338486, AI284640, AL043719,
AI453383, AA310158, AI567076, AW074059, AA074059, AA369477, AI356904, AI431303,
AI151261, AI732120, AI061296, AA483771, AI547286, AW193265, H13757, AA826303,
AA714453, AW247819, AI619997, AI053489, AA542991, AW080134, AI890928, AA810318,
AA525824, AW021747, N25303, AW276817, AL037554, AA252763, AA302963, F25867,
T90692, AA649642, AI434311, AI061143, H78195, AA132833, AA603445, AA069118,
AW193432, AI688846, AW102849, U57007, AF015160, AF015153, A39972, AF015155,
AF165926, Z30979, AF015167, AF015148, AC005081, AL023879, AF090940, AC009247,
AC006350, AC007216, AC000081, AC004887, AP000248, AC006057, AF068862, U12580,
AC007735, AC005944, AL121658, AC006077, AC004647, AC004150, U18396, AC006547,
AC004895, AC004797, AF015166, AJ246003, AC002378, AP000553, AC002425, AC004678,
AC002544, AF015170, AL080243, AC006538, AC006019, AF196779, AF015158, AC010206,
AB023049, U18395, AC002115, AC004812, AC006312, AL031846, U73634, AC006571,
AC004668, X55926, U18398, AC006040, AL121655, AL022721, AC005004, AD001527,
AC011311, AF069508, AC006040, L35531, AL021546, Z69921, AC016025, AL133245,
AC004903, AF017257, U57009, U91326, AF024533, AF114156, AC005231, U95742, AC006449,
AL132992, U47924, AP001052, AC005037, AC006111, AC006254, AC003104, U57005,
AL135744, AC005280, AL121603, AC020663, U85195, AC009516, AL022326, AF109907,
U67234, AF015162, AL050321, AL023494, AC002301, AL034549, AC005412, AC006241,
AC006486, AC007546, AL022329, AL023553, U18394, AL133246, AP000517, U12582,
AL049757, AF088219, AC005212, AL035659, AE000658, AL031685, AL109627, AL035587,
X54180, U18391, X55925, X54176, AC002310, AC003041, AC007676, AL031650, AC006285,
AC004771, AL031281, AC006251, AC002369, AC006088, AL049776, Z95114, AC007536,
AL022320, Z74739, AF045555, AP000359, AC005520, AD000092, AC007666, AC006511,
AC004612, AC004972, AC005041, AC005696, AL034420, M89651, AC016831, AC002543,
AC008040, AL022302, Z93241, AC004033, AF049895, AF015171, AC006480, AC004448,
AC008984, AC006600, AL035422, AC007114, Z83840, AP000512, AP000698, AB001523,
Z82190, AL139054, U18392, AC005940, AC005736, AL049759, AP001059, AL109984,
AL031594, AC002072, AC004019, AB023054, AC005821, Z97630, AC007014, AC007066,
AF107885, AP000513, AP001040, AC006512, AF134726, AC006042, AC006132, AC004263,
AC004230, AC005154, Z49235, AL021528, AC005618, AC003962, AC005015, AP000555,
U78027, AC005544, Z98050, AC005600, AC005500, AC007243, Z98950, AC002470, AC004673,
D84394, AC006539, AC007421, AC003110, AC005722, U80017, AF038458, X54181, X54178,
AL031577, U18393, AL096701, AC009509, AC006948, AC006252, Y10196, AC005911,

HCWHX09	1370	625596	1-339	15-353	AC005375, AL031720, AC002091, AL035448, AC004638, AC003101, L35668, Z86090, AC016026, AL022323, AP000557, AL031255, AC002073, AC004890, AC005612, AC005488, and AC007055.
HCWHX72	1371	849884	1-351	15-365	T59825.
HCWHX91	1372	723178	1-286	15-300	
HCWHX95	1373	736004	1-260	15-274	
HCWHZ18	1374	666452	1-329	15-343	AI268099, and AI702282.
HCWHZ51	1375	725682	1-317	15-331	
HCWHZ59	1376	739294	1-321	15-335	AI525565, AL039783, and AA758552.
HCWHZ83	1377	781186	1-128	15-142	
HCWHZ89	1378	668670	1-144	15-158	
HCWKA13	1379	494088	1-569	15-583	
HCWKA21	1380	670897	1-254	15-268	AI526203, AI541570, V00116, AF162506, AF162502, AF162504, AF162499, AF162503, AF162505, AF162501, and AF162500.
HCWKA28	1381	466763	1-407	15-421	AA484648, AA503002, T61555, AP000256, U36478, AP000155, AP000014, U91326, AL031659, AC002544, and AC007546.
HCWKA79	1382	574911	1-505	15-519	AC002040.
HCWKA96	1383	963621	1-342	15-356	AW183906, AI457975, and AA782016.
HCWKB04	1384	676904	1-428	15-442	AI299828, N51706, AA936483, R36572, R24933, AI299043, F05240, AI567908, H92474, N51794, AA806500, AA878245, AA482890, AA845639, and AF131763.
HCWKB10	1385	964570	1-396	15-410	AC004139.
HCWKC83	1386	496385	1-138	15-152	
HCWKD34	1387	706520	1-362	15-376	
HCWKF08	1388	959388	1-290	15-304	
HCWKF28	1389	686655	1-327	15-341	AI732327, AW327673, AI872229, AA493464, AI754257, AI521019, AI002950, AA132929, AW419201, AI890297, AW338376, AA171400, AW157128, AA218684, AA557945, AI828721, AJ572680, AA493546, AI826857, AW243817, AA661583, AI434103, AA584360, AA425283, AI571094, AL039117, AA084320, N26159, AI270280, AA600127, AA570243, AI754926, T34066, N99245, AW085751, W45215, AA557508, AA629668, AA167656, AA807704, T10218, AA601376, AA489390, AI348780, AI520984, AW029626, AI744890, AA430214, AA493245, AA610245, AW020612, AI568262, AI567676, AI732720, AA152398, AA640305, AI889177, AJ925588, AI888050, AW129188, AA455202, AJ570067, AI275989, AW162762, AA569220, AA535558, R61887, AI734158, AI343986, AI821605, AA287823, R33588, AI609972, AA369465, AA834891, AI620666, AI125143, AI300608, R54095, AW008217, AA340581, AI433952, AW105729, H05066, AA342029, AI086603, AI734193, AA315052, D29424, AA524604,

HCWKF29	1390	779862	1 - 193	15 - 207	AA969776, AC005516, AL050129, AL050338, AP000116, AC006141, AP000099. AL109854, M87914, U73630, AC006511, AC005041, AC002316, Z49154, AL080250, AL135744, AC005531, AC000090, Z98051, L47222, Z97876, AC004098, Z69705, AC004491, AP000954. AP000088, AF207550, AP000115, AL132987, AC004943, AC004673, AP000308, AB001523, AC004754, AL035460, AL031864, AC005015, AC008044, U91327, U71148, AC005412. AC004792, AC005358, AP000048, AL133353, AP000113, AP000045, AC005740, AL022238, AL022149, AC004552, AL109952, AL023803, AC005776, AF064859, AC005180, AF124523, AC004675, AF196779, AL096703, AC007386, AF088219, AC005228, AF134726, AC005102, U91328, AF196971, AC004409, AJ251973, AP000250, AL031588, AL031602, AL096791, AF191071, AL022326, AC004019, AP000030, AC009516, AC010205, AP000354, AC002350, Z98941, AL031311, AP000141, AL139054, AC004000, L47225, AC005519, AC007686, AC004802, AC006013, Z82190, AP000251, AC003982, AR036572, AL020993, AL049694, AL031133, AC004448, AC004967, AC008009, AL031291, AP000557, AC002465, AC005323, AL022165, AC000353, Z83308, AC005921, AC006157, AL033527, AC007401, AP000348, AL031003, AL096776, AC005325, U18270, AC003106, AC002470, Z93017, L78810, AF064858, AL117330, AL031667, AL031680, AP000692, X04981, AC005355, AL022721, AC005670, AC002563, AC003029, U95742, AC005484, AC005837, AC004148, AC004985, M87909, AL035086, AP000133, AJ000211, AJ009610, X56997, AC009248, AL024507, AC006050, AL109627, AP001060, AC006162, AC005369, AC002477, AC005908, AC005911, D87675, AC005086, AC005913, AD000812, AC006014, AC007216, AP000466, AC016831, U62317, AP000563, X71874, AL020997, AL109985, AB000931, AC002551, AC005695, AC005856, AC001228, AL008582, AL049646, AC005546, AC006139, AC006323, AC005512, AC003072, AC009247, AC004585, Z98752, AC020663, AC006236, AC005859, Z93241, AC004611, AC006312, AC003108, AC005730, AL096712, AC005253, AC004526, AP001054, AC005257, AL035423, AL050341, Z98750, D16517, AC005377, AL078477, AC006315, AC004655, AC006487, AC006449, AC006121, Z93848, AC003013, AF106656, AC005581, AC000094, U78027, AJ003147, Z93783, AC012627, AC004686, AC006441, AC002314, AC004999, Z95704, AP000263, L05367, AL121653, AP000359, AL034548, AC007676, AC004883, AC002404, AL109984, AC004816, AC005768, AC005759, AL034548, AC007676, AC004883, AC002404, AL109984, AC004890, AC004973, AP000280, AC005562, AC007371, AC003110, AC004125, Z99716, AL035658, and AL031255.
HCWKG10	1391	964577	1 - 369	15 - 383	
HCWKH08	1392	959381	1 - 452	15 - 466	AL079894, F31575, AA758244, AL040038, AA665475, AA772873, AJ049955, AA775205, AA846046, AA704346, AA553513, AA775973, AI933703, AI418232, AI978713, T60316, AI003391, AA828775, T05617, F30586, AI469468, AA587113, AI627917, AA932787, AA719523, AA077886, AA340534, R51882, AA503019, R92248, AA320060, AA558505, C18083, AI453321.

1700

HCWKH16	1393	661898	1 - 369	15 - 383	AA687561, R92658, T41164, AA128863, AA830615, AA758275, H52638, AI800345, AI798521, AA653713, AA614139, AI285493, AI921765, AA601390, AL138252, T41132, Z99128, AL031685, AL078639, AC005049, AC006344, AC005921, AC002299, AC005838, AC007129, AC006141, AC002430, AC005823, AL096791, AC005520, AC008040, Z83851, AC006396, AF124523, AL031289, AL022398, Z83844, AC005067, AF017104, AC016831, AC005764, AI135959, AL020993, AP000065, Z82172, AL035658, AC006254, AC007842, AL096699, AL021331, AL049539, AJ006997, AC004692, AL034449, AC002352, AC002470, AF112484, AF042834, Z83334, X87373, AF045999, AL035398, U82668, AP000008, AC007880, AP000704, Z82214, AC002402, AL133216, AC000353, AC005274, AC005881, AP000310, Z98272, AC005202, AL031728, AP000116, AC002425, AL031589, AP001068, AC004953, AC002544, AJ011930, AF031075, AC003051, AC002511, AP000250, Z99754, AC004652, AC005787, AP000030, AP000211, AC004585, AC004895, AC005822, AL132642, AC004129, AC006930, AL121603, Z49237, Z97195, AC004050, AL022396, AL031587, AC003666, AC004664, AC003991, Z97196, AL109984, AC004966, AL121653, AC005736, AC009028, AC004887, AC007240, AL049569, AL096768, AP000032, AC004263, AL021707, Z95115, AF001550, AF001549, AF109907, AC008372, AC005332, AP000509, AC003009, AC005971, AL133162, Z84487, AF030876, U62292, AC007766, AC005944, U62293, U63721, AC005057, AL023653, AC004638, L78810, AL117352, AC020663, AL031282, AL050307, AC000026, AL035460, AC004967, AL031258, AL008726, AL035608, AL031282, AL022721, AC002059, AP000344, and Z99716.
HCWKH25	1394	678086	1 - 295	15 - 309	
HCWKH36	1395	924191	1 - 287	15 - 301	
HCWKI31	1396	678375	1 - 64	15 - 78	
HCWKI77	1397	920043	1 - 445	15 - 459	AI526025, AJ541507, AI557804, AI557719, AI526171, AI557741, AI557764, and V00115.
HCWKI92	1398	792689	1 - 466	15 - 480	
HCWKJ23	1399	934393	1 - 464	15 - 478	AL041690, AI471481, AW261871, AA055169, M86143, AA720702, AI903462, AI334435, AA551552, AA594145, AI432270, AA483223, AA559290, AA503600, AW301302, AA503119, AW050498, AJ133297, AA747777, AW023990, AA632612, AW406755, AA493708, AI334443, AA992351, AW103509, AI733755, N27329, AA806796, AA828042, AI358229, F29989, AA587667, T41050, AA810269, AA719805, AW083364, AW083402, AA491814, AA326441, AW273218, AI860020, ALJ19691, AA533303, H78195, AA502107, AJ061334, AL042753, AI754336, AI918421, AJ002834, AI382614, AA954936, AI801600, AI580652, AA810370, AA577959, F36306, AW062724, AA652057, AA623002, AA834755, AW118338, AL121385, AA503258, AI358812, AW022406, AA478355, AI866856, AI282511, AA496260, AA533725, AA572713, AA573725, AI732179, AA469451, AA503154, AA535661, AI702314, AA644538, AI049634, AW057877, AA483321, AA480784, AA657535, AA610491, AA071393, AA601876,

AA634889, D82290, AA526342, AA714453, AAS02104, AA683258, AA640034, AA531079,
AI053406, AI053623, AI863054, AA635105, AW193295, AW265385, H46122, AI368256,
AA584581, AAS81903, AA847499, D82542, AI110688, AA346458, AA653375, AI301700,
AI344844, AA934680, T40617, AAS68341, AI355206, AA846952, AW075511, AW276710,
AA302963, AA779746, AA614070, AI886629, AA468022, AA828749, AI921061, AA302648,
AI963720, AI365988, AA652764, AI434706, AA664909, Z78385, AA782272, AA745406,
AA601355, AAS69471, AI079389, AI951863, AI283911, AL079812, AI924872, H71429,
AAS77426, AW247819, AA720758, AA487621, AL046457, AA513136, H70994, AI039790,
AA834646, AA665021, AA773902, AAS33333, AA488746, AA679124, AC005412, U80017,
AC020663, AC004098, L78833, AL121603, AF031078, AP000552, AF030876, AC009516,
AC002563, X87344, AC007970, AC005031, AP000103, AC002091, AC004216, Z82976,
AC013248, AC006132, AL023575, AC005516, AC005901, Z95115, AC005154, AL034555,
AC004638, AC005288, AL031257, AC007917, AC007114, AC007051, AP000548, AL096701,
U85195, AC006026, AC006539, AL021397, AC004797, AC002549, AL080243, AC003950,
XS3549, AP000556, AE000658, U66059, AL031682, U34879, AF064861, AC002395, AF010317,
AF064863, AP000555, AC006925, AC004159, AL033522, AL109827, AC005696, Z98304,
AC005690, AP000557, Z22650, AL132712, Z49769, AL049769, AL049776, AC004662, AL021977,
AF038219, AC008126, AL136297, AC010072, AP000473, AL035458, AL008629, AL122021,
AC006581, AC006271, AL121882, Z86090, AC005212, AL049759, U18388, AC007237,
AF002223, AL031733, AC005821, AC004854, AL022323, AC003664, AL035420, AC007684,
AC004259, AC005740, AL133246, AL021453, L44140, AL031650, AC007877, AC005294,
AC004813, AC005531, AC004600, AC005324, AC002377, AL021154, AC005197, Z98051,
AC005765, AL117330, U35114, AL049712, AC004887, AF165176, AL050348, AC007687,
AC007731, AC004149, AC005911, AC005565, AC006130, AB020859, AL020993, AL096699,
AL008627, AC005500, L29074, AC006318, AC008101, AL049833, AC007245, AC006515,
AC004485, AL035587, AC000085, AP000952, AC004686, AC006211, AC005914, AL031591,
Z68869, AC000052, AC000353, AF121781, AC004019, AP000567, M37551, AC005694,
AC007262, AL096791, AC004134, AC004447, AL122020, AC005249, AP000248, AF190465,
AJ133269, Z97053, AC000075, AC010200, AL031120, AL022328, AC005599, AC002040, AF029308,
AC005678, AC004975, AC010200, AL031120, AL022328, AC005599, AC002040, AF029308,
AC005019, Z97181, AL032821, AC004755, AC005015, U91321, AC007226, AP000193,
AL031427, AC005005, AC006571, U78027, AC004675, D87675, AC007052, AP000353, Z70049,
AC006064, AC005527, AL034379, AC004913, AP000050, AC005279, AC002350, AL133245,
AL021069, AC005280, AL034449, AC005829, AC005924, AL109628, AP000311, AC004764,
Z82244, AC007207, AL031118, AL049544, AL035070, AL021155, AC007666, AC006370,
AC007421, AL035494, AC005231, U82668, AP000117, AC002558, U14708, AC009286, S70707,
AC004029, AC006285, Z75889, AL009174, AL035422, AC000118, AL049742, AC016025,

HCWKJ40	1400	861851	1 - 397	15 - 411	AR000118, AC006123, AC007066, AC005618, AC002306, AC004889, AC005520, AC003101, AP000228, AC004477, AP001037, AC005225, AL121578, AF129756, AC004690, AC008249, AC005495, and AC004821.
HCWKJ60	1401	968112	1 - 364	15 - 378	T20034, and AL034548.
HCWKJ96	1402	571302	1 - 291	15 - 305	
HCWKM28	1403	849915	1 - 343	15 - 357	
HCWKM31	1404	697974	1 - 155	15 - 169	
HCWKM58	1405	849934	1 - 393	15 - 407	
HCWKM60	1406	740347	1 - 359	15 - 373	
HCWKM88	1407	792086	1 - 246	15 - 260	AA535661, F19258, H72666, AI886176, AI923140, AW157326, N99715, AW021917, AA340003, AI721122, AA501872, AA167741, AI761471, C18648, AI358229, AA584749, AA133986, AW339687, AW088058, AI439360, AI635272, AA366820, AW406447, AA332991, AI281903, AL120483, T12272, N23649, AI305766, AW261871, AW439558, F29989, H00934, T40338, AA652057, AA649642, AA377730, T40617, AI053786, AA581342, AI365988, AL133723, T16592, AA489775, AA365347, AA508080, AI863283, AA125788, AI742771, AW008317, AI567786, AA569284, AI561116, F31204, AI914706, H18175, F18974, AI571512, AW074398, R93061, AI049634, AA515128, AA515435, AI375710, AW193432, AI284640, H60239, F25276, AA558697, AA363260, AW304584, N71724, H92005, F35659, AA483204, AI110822, AI446464, AA669251, AW276827, AA558227, AA016286, F28576, AI282907, AA973575, AI569086, AA441788, AW193265, T29180, AW337985, AA682189, AI079910, AW130799, AI445436, AW023270, AI802526, AI064864, AI890052, AA743956, AI963786, AI613280, AA181718, AA780929, AL118911, AI493546, AL079645, AI344844, F36273, F37286, AI521901, AA309485, AI471481, AA919037, AL048925, AL042856, AW193512, AA095511, AI963095, AI879000, AW270284, AW327360, AA745410, T58118, F36306, AA443065, AA344959, Z84480, AJ246003, AL049836, AL121658, AC002429, AC005386, AC009501, AP000292, AF039905, AC004650, AL109653, Z93023, AC002981, AP000111, AP000043, AC018633, AC006030, AC004808, AL035411, AC002386, AL022147, AL009051, AL008629, AC005901, AF222686, AL034384, AC009405, AL035090, AL035671, AC004903, AL031116, AL132708, AC005158, AC003029, AC005723, AL049647, AL117693, AL109759, AF053356, AC007036, AC004485, AC004655, AL121603, AJ011930, AL049745, AC004453, AL031432, AC004738, AC006152, AC004069, AL109854, Z94044, AC008012, Z94056, AC002067, AL031602, AC008115, AC006347, AC004901, AC005341, AJ006345, AC004070, AC004072, AL133321, AC000085, AC007625, AC006071, AC005597, AL022165, AC004382, Z93242, AF111168, AC005280, U91322, AL033375, AC006482, AC007172, AL031542, AC002369, AF123462, AL022318, Z98036, AC011604, AC006046, AC006111, Z93928, AL049834, AC008008, AC007102, AC004458, AC005829, AL118497, AL035427, AC005183, AC007207, AC007743, AC004822.

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HCWKM90	1408	960177	1 - 325	15 - 339	AP000506, AC005972, AC003016, AF188025, AC009263, Z73416, AC005915, AC004835, AB000882, AC005161, AC006031, AC007055, AC005993, AL009181, AC008033, Z83308, AL008635, AC006257, AL035634, AL133371, AL049777, AL035446, AC007308, AL031643, AC004875, AL049780, AC007632, Z99716, Z93784, AP000359, AC004527, AL034351, AC005826, AC005007, AB020867, AF015416, Z97630, AC005084, AL050333, AF067844, AC004947, AL096707, AL035703, AC005832, AL022329, AC008085, AC004460, AC003664, AC002470, AC005190, AC009241, U59962, AC006057, AL049829, AC004585, AC006966, AL109839, AL133163, AF165926, AC006120, AC005243, AC002091, Z95116, AC003085, U82828, AC006484, Z83838, AC006079, AC004859, AC005862, AF002223, AL023656, AL035425, AL022161, AL109847, AL031686, and AC005678.
HCWKN08	1409	959380	1 - 270	15 - 284	
HCWKN57	1410	861537	1 - 398	15 - 412	AA053759, AI452726, AA724782, AI275071, T08298, AA582073, AA953238, AI811302, AA584526, AI147425, AI635247, AI310873, AI345366, AA047715, AI174766, AI921328, N71746, AA758366, AA581329, Z22942, AA654318, AI445088, AA702729, H52562, AA679511, AA741028, AL040170, AI268334, AI268336, C18993, W56883, AA126450, AL138128, AA292178, AW118442, W92132, AW277171, T47909, AA236903, AL036037, T11828, AI913370, AI349849, AW168420, AA683238, AA757775, AI732223, AW128884, AL119691, AW128900, AI732154, AA847181, AW021917, AA857428, AL037952, AL044286, AI590485, AL037383, AA219059, AA487272, AA350349, R02522, AA484373, AJ207846, T89952, AA513188, Z22633, AI283456, AA872990, AW021583, AI371429, AA464976, AA454041, T65779, AI094315, AA600869, AI023637, AA136649, AL135377, T61573, AC007036, AC004080, AC004595, AP000301, AP000114, AP000045, AL035403, AC003024, Z95116, AC006195, Z97987, AC004816, AC004912, AC003687, AC004531, AC006037, Z83001, AC010206, AC002319, AC005670, AF110527, AL022333, AL022314, AC006928, AP000346, AF036405, AC004975, AP000495, AC007226, AC009516, Z82190, AC004811, AL122020, AL049781, AL050402, AR038761, AP000253, AP000252, AP000213, AP000135, AC007030, AP000031, AC002381, AC005495, AL031734, AP000298, AF020662, Z75746, L34079, AF039907, AC004196, AC004156, AC000393, AC005387, AP000390, AP000745, U07562, AC005903, AL121588, Z72001, AL035652, AF190641, AL109827, AP000044, AP000113, AP000162, AP000065, AL050341, AL031776, AF191069, AC004068, AL031447, AJ239321, AC005887, AL034417, AB001523, AL049694, AL034561, AF207550, AL033377, AC004848, AP000697, AL035246, Z82215, AL035423, AL049636, AL024498, AL050403, AC004695, AC007358, AC005088, AC007879, AC002350, AC007065, U91318, AC002449, AL135783, AC012152, AC005871, AC006040, AC007707, AC005971, AC007298, Z69666, AC007162, AC003090, AC006146, AL031116, AC005668, AC005972, AL121823, Z84718, AL117354, AC008064, AC007917, AC005323, AC005919, AD000833, AP000292, AL049795, AC007099,

HCWKO51	1411	959684	1 - 482	15 - 496	AL035667, AL022400, AC008033, Z98200, AC005076, AC003010, AF129756, AC006430, AP000962, AL050305, AC005071, AC006124, AC006347, AC005754, Z84487, AC004015, AC007686, AJ250563, U91326, AF085997, AC004525, AC006985, AL034431, Z93930, AP000510, AP000502, AL008715, AL008635, AC010168, AC004929, AC005215, AC006463, AF118808, AL132992, AC000025, Z83826, AC002994, AC006441, AC009721, AC007386, AF134726, AL109985, AC005040, AL022476, AC005529, AP000497, AL022323, M65145, AL031255, AL033544, AC006261, AC006165, AL050334, AB023051, AC002301, AC003983, AL034412, AF064863, AC004655, AL031279, AC005410, and AL009179.
HCWKO82	1412	827083	1 - 314	15 - 328	T65671, AC003030, and AC004539.
HCWKP03	1413	924104	1 - 318	15 - 332	F30824, AI198292, AC004742, Z97053, AC005391, AP000044, AP000112, Z84466, AL050332, and AL050318.
HCWKP51	1414	725653	1 - 333	15 - 347	
HCWKP53	1415	664923	1 - 296	15 - 310	AL022161.
HCWKP56	1416	849861	1 - 386	15 - 400	
HCWKP63	1417	732447	1 - 323	15 - 337	AAS84765, Z85986, AC004032, AL022330, AP000462, AB017654, AP000511, and U91323.
HCWKQ31	1418	849851	1 - 533	15 - 547	
HCWKQ55	1419	706487	1 - 406	15 - 420	
HCWKR13	1420	917268	1 - 309	15 - 323	N23693, AA227713, AW304519, N23689, AI054395, N23688, H48670, T05410, AA58242, AA223762, AI537310, AI355513, AW263396, AA736445, AC009247, AC005019, AL096701, AL031291, AC004659, AC002381, AL078638, AL132987, AC004878, AC006101, AL139054, AC002059, AC018633, AC005874, AF134471, AC005839, AC005184, AC005295, AC006211, AL117258, AC005095, AC002470, AC007308, AC002350, AF001552, AC003074, AC010077, AP000512, AC007774, AC007406, AC005988, AC008044, AC005089, AC006948, AC005316, AC002544, AL031054, AC004383, AC004522, AF109907, AC005317, AC006241, AC004966, AC006552, AC004236, AC007161, AL109628, AC002086, AC006480, AC005071, U40369, AC002551, M13792, AF003626, AC006088, AL096763, AC007677, AL022334, AC005519, Z95331, and AF207550.
HCWKR80	1421	527074	1 - 384	15 - 398	
HCWKS13	1422	657194	1 - 299	15 - 313	AW271211.
HCWKT11	1423	966989	1 - 355	15 - 369	AI244254, N22058, AA715418, AA95S031, AL073472, AP000023, AC004106, AF003626, AF139813, AP000555, AC004858, AC005277, AL139054, AL022163, AC004228, AL031311, AF109907, AC005972, AL031594, AF129756, AC005666, AC004878, AC004491, AL122020, AL049872, AC005971, AC008119, AC004983, AC006064, AC006111, AP000501, AL033392, AC005288, AL049780, AC004622, AC002316, AC002913, AC004913, AC005844, AC005829, AL009179, AC005778, AC003025, Z84483, AC004483, AC004408, AC000085, AC004678, AL109758, Z84467.

HCWKT43	1424	659539	1 - 230	15 - 244	AF134726, AL121653, AL096763, Z93930, AC005668, AC016025, AF196971, AL031591, AC005071, AP000692, AL021155, AC007421, AC004257, AC002477, AC004032, AC005663, AC002303, AC007055, AP000512, AC005736, AC005482, AL096791, AC003101, AC005041, AC005015, AP000359, AC005237, AF031078, AB023049, AC007486, AC011331, AF205588, AL031228, AC004552, AF037338, AC006001, AC005632, AF030876, AL033527, AC006271, AL035411, Z85987, AC005874, AF134471, AC006468, U91321, AC005529, AC006480, AL031427, AC004019, AP000502, AL109939, AC004525, AC005180, AC005324, AL009177, AC005081, AP000246, AL031664, AC005399, AP000509, AC002312, AC007845, AF045555, Z98051, AC006120, AL049829, AC005568, AL008715, AL049696, AC003982, AC006160, AL109839, AC005480, AP000032, AC002091, AL035467, AC005215, AC005102, AF001550, AL020995, AC002094, AL133246, AL096701, AC002310, AP000345, AC006277, AL121595, AL080248, AC006530, AC005484, AJ003147, AP000354, AL049569, AC002470, AC004517, AC002400, AL031662, AC005225, AC004895, AC004551, AP000103, Z84487, AC007934, AC002364, AL022329, AC005531, and AL049759.
HCWKT57	1425	881629	1 - 331	15 - 345	AC006014, AC005488, AL049869, U29895, AC005529, AC008372, AD001527, AC005081, Y18000, AC007225, AC005011, AL021155, AC002544, AF111167, AC004526, Z85987, AC006538, AC002470, and Z98949.
HCWKT63	1426	849944	1 - 463	15 - 477	
HCWKV68	1427	959801	1 - 241	15 - 255	
HCWKV77	1428	527554	1 - 388	15 - 402	
HCWKV85	1429	932540	1 - 373	15 - 387	
HCWKX13	1430	466512	1 - 393	15 - 407	AA694449, AA569961, and AL031602.
HCWKX61	1431	676895	1 - 400	15 - 414	
HCWKX68	1432	725014	1 - 345	15 - 359	AC007463.
HCWKX77	1433	772163	1 - 405	15 - 419	
HCWKX81	1434	724873	1 - 437	15 - 451	
HCWLA68	1435	665744	1 - 291	15 - 305	
HCWLD01	1436	916439	1 - 691	15 - 705	AI476149, AI476150, AA310216, H90114, AA742815, AA904211, AA468371, T50676, AA468505, AA230025, AA614254, AA228368, N73060, AI050760, AJ572680, AA188423, R33091, AI281561, AA224889, AI457313, AI634187, AW069227, T03928, AI431513, AI917132, AA584756, AA302978, AW304637, AI679221, AA171892, AA135761, AI310992, AI300818, AW243808, F29968, AI601229, AA228269, AI628859, AI884522, AA654763, AA728911, AA525753, AW340905, AI583142, AI754653, AA017149, AW028376, AW068008, AW068007, AA297776, F17537, H84412, AI277318, AI271762, AA077776, AA278496, AA493628, AA492524, AI635440, AI473995, AA206707, AW069537, AA557945, AA573062, AA587826,

HCWLD06	1437	935392	1 - 439	15 - 453	AA053136, AI613389, AW028950, F00688, AW194024, T94072, AI267356, AA743968, AI039257, H43771, AA367920, AW067788, AA470512, AW341882, R34070, AA702717, AI872461, H52283, AA827490, AI732502, AA015753, AL050318, I34294, AL109798, AC005081, AC018633, AP000511, AC005495, AL035659, AC004967, AL022326, AP000694, AF165926, AL049872, AC004211, AL020997, AL022333, AC006501, AC005520, AC007384, AP000032, Z85987, AC005774, AC007546, AP000103, AL034420, AB023049, AB023050, AL136295, AC002072, AF178030, AL049712, AC002430, AP000513, AC006241, Z83845, AF111168, U78027, AC002302, AC006449, Z99716, AC006581, AF050636, AL122023, AC004797, AL049697, AL035422, AC004985, Z68276, AL031427, AP000269, AC007193, AC002310, AJ251973, AC005755, AL008723, AL031284, AC002477, Z82208, AC004815, AC002395, AL031685, AB009695, AC005519, AC006948, AC006077, AC005781, AC000041, AB020868, AC005015, AC003692, AC005519, AC006948, AC005480, AF001550, AC006211, AL021392, AC006312, AF207550, AL049776, AL035072, AC005291, L44140, AL035658, AF196971, AC000025, AC002553, AC005815, AP000359, AC004686, AC007993, AL109963, Z54246, Z82215, AC004148, AC004024, Z97056, AC004623, U91318, Z84469, Z99129, AL031584, AJ003147, AC007130, AC007371, AC006079, AF049913, AL031657, AF024533, AL050337, AP000289, AL133243, AL008735, AL096701, AC005776, AP000042, AP000110, U26425, AB017602, AC005736, AL035413, AC003690, AL031846, AC007687, AP000354, AC006544, U62317, AC007225, AL035587, AC007199, AL034548, AL022165, AC002563, AC003688, AL022316, AC005484, AC004922, AC005070, AL023553, AF053356, AC006966, AC006958, AL034582, AC007052, AC005972, AC005914, AL049713, AL034423, AC005899, AC002425, AC005696, AL096791, AL031670, AC004531, AC002985, AL132708, AP000048, AL022311, AL024474, AL035455, AL035458, AP000348, Z98036, AL022327, AC006126, AC005924, AP000351, Z93241, AC006050, AL121603, AL031296, U62292, AL031577, AL022336, AC004770, AC002059, AC007639, AC007421, AF196969, AC002091, AC004707, AC000085, AL049553, AC002544, AC006120, Z84718, AC000353, AC004655, Z99774, AC003030, AC004675, AC002301, AC004755, Z83846, AL031311, AL022163, AC002316, AP000350, AC005004, AC005670, AL049871, AC004765, AC005911, AC005726, AP000512, U85195, AC004560, AC005046, AF038458, Z84487, AL021878, Z98304, AL035461, AC003007, AP000504, AF001549, AL049709, D89927, AC005759, AC005225, AF111169, AC004150, AL022312, AP000086, AL050341, AC004645, AC005071, AL109628, AP000045, AC004448, AC004884, AC004234, AC004477, AP000555, AC004383, AC003969, AL049757, AL096794, D86995, and AL049610, AC005409, AI002059.
HCWLD30	1438	933118	1 - 419	15 - 433	AA302812, AL041375, AW340905, AW277174, AI291037, AL047349, AW270768, AA484892, AA630476, AL410788, AA570740, AA483606, AA228778, AA524616, AI199816, AW089625,

AA857812, AA568204, AI061313, AW242031, AI679759, AI984168, AI623764, AW103758,
AW265688, AI962030, AA847704, AI355246, AI633168, AI040051, AI653776, AI890046,
AA489390, AI572680, AI815210, AW103030, AI431513, N23097, AA468956, AA507499,
AA463590, AA558366, AA728911, AW082104, AA904211, AI696878, AA664604, AI148404,
AI079901, R44593, AL037910, AI362442, AA158023, AI927275, AI445216, AAS99080,
AA610381, AI733856, AA582554, AW274078, AI859438, AI357976, AAS13916, AA120920,
N67313, AA424249, AAS58488, AA609834, AW167154, N23913, AW023270, AA572983,
AL044966, AA584484, T50676, AI245693, AW189068, AA176604, AI267356, AW026305,
AI282479, AI278972, AI421950, AW408767, AI419337, AIS98003, AI446623, H47736,
AI285696, AIS90593, AL119691, H60912, AIS90404, AW068853, AI961983, RS2008,
AW302709, AI830390, AI053673, AA600202, AI417469, AL049694, U95739, Z82214,
AC005029, AP000359, AL034417, AC005004, Z98048, AC005231, AC007055, AC003041,
AC005043, AF165926, AC007308, AC005089, AC002470, Z99716, AL031283, AL132777,
U85195, AL034420, AF196779, Z83847, AC003101, AE000658, AC005726, AP000514,
AC005755, AC004526, Z83844, AL049795, AC002316, AL022721, AC006441, AP000114,
AL133246, Z93241, L44140, AC002314, AF111168, AC004797, AD000671, AC007536,
AC005696, AL034379, AL033525, XS5448, AL035587, AC005071, U80017, AC003029,
AC004757, AC005261, AP000555, AP000553, AC006530, AC005962, Z97054, AC004760,
AB014078, AC005730, AL031255, Z98044, AC002472, AC000025, AC005015, Z93020,
AP000046, AP000008, AC004895, U91318, Z93017, AC007160, AL031659, AP000557,
AC007193, AC020663, AC006252, AL049776, AC009516, AC004150, AP000509, AC003080,
AC007664, AL031277, AC007376, AF019413, AC005399, AC000041, AC002563, AC006111,
AL020995, AC005920, Z93023, U78027, AC003007, AC005844, AC004832, AL031767,
AL035417, AF129756, AC006014, AL080243, AC002477, AL117694, AL121653, AL049760,
AC004814, AL035422, AL031681, AC005940, AC005544, AL049829, AC005324, AC005624,
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AC006121, AC005921, AC005145, AL022336, AC004878, AC002351, AP000556, AF196969,
AC003043, AL031589, AC005971, AF205588, AC004253, AL024507, AC006057, AC004491,
AL022165, AC006141, AL121655, AC007371, AC006146, AL096701, AC007216, AC005409,
AC005332, AC006511, AL020997, AC002996, AL031295, AL022313, AC008071, AC007283,
Z95152, Z85986, AC006285, AC003992, U91322, AC005081, AC007436, AF038458, U91326,
AC004967, AC005899, AC005775, AC004821, AC004099, AC004796, AL008710, AC006116,
AC008018, AC004653, AP000050, AL035460, AC002425, AC002288, AC002480, AL024498,
AL023575, Z93930, AC007011, AL034549, AL021453, AC016830, AL050321, Z84476, AL009181,
AP000472, AP000117, AC004765, AL021453, AC016830, AL050321, Z84476, AL117351,
AC002350, AC006251, AC006511, AL005881, AP001053, AL133245, AL008730, AC004659, AL031289,
AC004913, AL121595, Y14768, AP000011, AP000159, AC006160, AC004596, AC006449,

HCWLD83	1439	1 - 304	15 - 318	AL136295, AJ246003, AP000133, AP000211, AC006942, AD000833, AC005529, AP000694, AC002045, AC002544, AC005778, AC002310, AP000505, AP000152, AC006211, AC006071, AL035413, AP000261, AL031186, AL049830, AF111167, AC005790, AP000558, AF047825, AC002301, AC008072, AL109963, AC003663, AF001549, AC004383, U95742, AC005488, AL031432, AC007450, AP000313, AC004707, Z97876, and AL034423.
HCWLE11	1440	1 - 399	15 - 413	AI431966.
HCWLE34	1441	1 - 416	15 - 430	
HCWLE37	1442	1 - 400	15 - 414	AC004687, AB014512, and AF039571.
HCWLE46	1443	1 - 516	15 - 530	
HCWLE57	1444	1 - 471	15 - 485	
HCWLE64	1445	1 - 300	15 - 314	AA837796, AI521042, AA666066, AI587565, AI587583, AF141309, AC007227, AL020997, AC005231, AC006597, AL096791, AC005972, AC004686, AL021546, AC007845, AC003035, AC016025, AC004703, AP000359, Z93023, AL117328, AC004263, AL009181, U96629, AP000355, AC005015, AL034553, AF061032, AC004796, AD000812, AP000354, AC004041, AC003110, AC006344, AC002091, AC002126, and AL031672.
HCWLE95	1446	1 - 175	15 - 189	
HCWLH02	1447	1 - 688	15 - 702	AL038842, AI049630, AI733856, AA491423, AA528566, AA525517, AI886360, AI707744, AA508873, AI243793, AA857381, AA513189, AA765925, AA283081, AC007055, AC004804, AF019413, AL031848, AC005548, AC007193, Z75407, AL031678, AC007537, AL121658, Z98742, AC008101, AJ246003, AC005387, AC004738, AC004491, AC008079, AC005746, AL117354, AC005696, AL121603, AL021155, AC021155, AC005562, AL035405, AC005409, AL031228, Z84480, AF134726, AC004020, AC004020, AC005057, AL035089, AC004033, Z95152, AL031295, AC005058, AC005358, AC005015, AC007011, AC005899, AC007160, AL133448, AP000689, AC005180, AB023048, AC004605, Z83846, AC002369, AC004686, Z82176, AC005231, AC004859, AL109628, AP000497, Z93017, AC002316, AC004830, AC005859, AC007283, Z97630, AC005520, AC005209, AC006001, AC005209, U62293, AC002352, AC006271, AF118808, Z75741, AC005620, AL031311, AL121757, AC004797, AC006211, AC002302, M17262, AF124523, AC009069, AL031685, AC004254, AL132712, AB003151, AP000704, Z96074, AC002351, AL109984, AL008719, AC004673, AL109827, AP000556, AC020663, AL031666, AC005529, AL031276, U96629, AC004477, AL031846, AP000692, AC005071, AC002418, AC006120, AC004883, Z95115, AC006026, AL133163, AC003093, AL034548, AF126403, Y07848, AC005740, AL021707, AC004476, AL034423, AC009516, AF111168, AL008631, AF015720, AC003982, AC002299, AC006111, AC007731, AC006285, AC003007, AC005500, AC006077, AL021453, Z82215, AC000026, AC006057, L78810, AL049760, AC003110, AC004531, AC005695, AC004386, U72788, AC008004, AC006449, AC000353, AC004099, AC006160, AP000500, AC004966, AL008635, AC004856, AL121655, AF139813, U95742,

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HCWLH09	1448	625558	1 - 517	15 - 531	
HCWLH20	1449	529356	1 - 336	15 - 350	
HCWLH42	1450	954875	1 - 677	15 - 691	AI791227, AA524604, AI708424, AI141202, AI628922, AL134669, AA663579, AI572680, AA504951, AI791720, AI791408, AL079869, AL119331, AA595370, AA577824, AA454870, AI708663, AW021674, AA723282, AI732327, AI828721, AW238137, AA640305, AI753969, AI745666, AI732720, TS9943, AI174827, AW022796, AI889177, AI003086, AI049999, AI890297, AW338376, AA171400, AL042539, AI310464, AI434103, AA601712, AI733523, AW248479, AA218684, AW008217, AI860423, AI734119, AA084320, AI312614, AL044966, AI344906, AI270280, AA569220, AI148840, AI254267, AA643788, AA199578, AI221027, AI884404, AA652675, AW275432, AA330549, AW157128, AL044701, AA629668, F25759, AI872229, H64858, H64884, AW338633, H59797, AI679902, AI925423, AI679394, AI678812, AL036896, AA284638, AI884763, AA618531, AA554289, AI567676, AI678468, AI038029, AA525818, AA470490, AA834891, AI281622, N70293, T03576, AI963816, AA493546, AL133238, U91321, AB001523, AC005288, AC004703, AC004752, Z84474, AC006130, AL021940, AC006581, AL035086, AL021391, Z97054, AC007537, AC005412, AL008582, U80017, AF134726, AC005971, AP000692, AC008372, AC005358, AL132777, AL031587, Z84466, AC005519, Z98051, AL022315, AP000512, AL122020, AC005484, AP000099, AC006162, AF111168, Z82198, AC002310, AF118808, AP000365, AC003982, AL031846, AL031666, AC007226, AC002312, AP000036, AC004125, AC005585, AL121603, AC005180, AC008044, AC006197, AC004816, AL049776, AC007878, AP000555, AC006254, AF053356, AC005899, AC004638, AP000503, AC005839, AC005747, AC006121, U63721, AC005829, AC006453, AC009516, AC007376, AC002418, AC004821, AB023051, AL049694, AJ246003, AC005326, AL078593, Z82201, AC004913, AC004890, AC005291, AC007227, AL022323, AC005837, AL031283, AL022165, Z97053, AC005031, AC005527, AC005280, AL080243, U78027, AC005261, AL031670, AC004832, AC005031, AC005015, AL049759, AL121595, U85195, AC004999, AC007686, AC005529, AC004386, AC007421, AC005666, AL031427, U52112, AL022316, AC005911, AC006511, AC004552, AC005409, AL022163, AC006277, AC006026, U62293, AE000658, Z83840, AC005399, AC006538, AD000092, AL031311, AL034549, Z98200, Z93017, AC006241, AF111167, AC005932, AL049869, AL096701, AC003665, AC006530, AC004796,

				15 - 246	AI884861, CI6780, CI6638, AI267356, AA224525, AW270429, T02817, AI267450, AW270351, AJ859906, T07225, AI084157, AW062363, AA706160, T08386, AA121784, H47368, AI002389. AI690474, AA730336, H38228, AL044177, N38991, AA526401, AI469392, AI889426, AI791227, AI732911, AA995373, F35684, AI984118, F30497, AA078509, AA652763, N29930, AI143653, AW019964, AW342143, N64577, AA598605, AJ860535, AA857812, AA186905, H25626, AI537800, H83126, AW104831, AJ888298, AI279477, AL021154, U02052, AP000432, AC005940, AL096701, AC005288, AC006130, AC006019, AF124730, AL117354, AC000026. AC004234, AL035695, AC009247, Z93930, AC005740, AL031670, AL031846, AL022165, AC007386, AC006965, AF196972, Z84480, AL022320, AC006255, AC004531, AC006930, AF020503, AP000501, AC004941, AC007283, AL078638, AF001549, U95742, AC005822, Z93016, AC006146, AL022316, AL033527, AL031277, AC007216, AL132712, Z97184, AL031664, AC007388, AC000092, AC006285, AP000466, AC005746, AC002316, AP000555, AC006539, AL034420, AC002059, L47334, AC000052, AC016025, AC005618, AC007376, L48038, AL035072, AF172277, AC002368, AP000550, AC006251, AL023281, AC004973, AL034553, Z83826, AC004967, AL022313, AF047825, AC004019, AC005488, AC005856, AC006538, AC005251, AF196779, AC005154, AC005004, AC006241, AL050348, AC005696, AL035455, AL022323, AL008583, AC004879, AC005911, AF111167, AP000557, AL008582. AC006236, AB023048, L78833, AL110279, AL049830, AC006529, AC000353, AC004020, Z97635, AL034451, AL031311, AL049758, AL035086, AC003965, AC002425, AC003689, AC004799, AL121603, AC005519, AC007358, AC004491, AC007193, AL034369, AC006946, AC008018, U95740, M17262, AP000349, AC007066, AF064863, AL022326, AC006441, AP000553, AC007690, AC002326, AC005913, AC004448, AC005399, AL109657, U91321,
HCWLH75	1451	670202	1 - 232		AC002429, AL035422, AC005696, AL035455, AP000359, AL022476, AF088219, AF107885, AC007688, AL034420, AC005037, AC002375, U91325, AC006312, AL035460, AL009181, AC002377, AC005377, AL121655, Z98044, AB003151, AC007193, AL008718, AC004659, AL022238, AC004805, AC007934, AC005632, AL049757, AC004673, AC007546, AL121653, AL117258, AL132712, AC016025, U62317, AC005553, AC005531, Z82208, AC006449, AL139054, AC005231, AL022326, AJ003147, AF111169, AC004702, AL109952, AC005755, AL022336, AC004671, AC006057, AC005089, AC007051, AC004228, AL035587, AL035659, AC005920, AC004997, AC002477, Z98742, AC006040, AC006344, L78833, AL133448, Z99716, AC003025, AC005907, AC004929, AL020997, AJ251973, AC004883, AC005355, AC006509, AC000379, AL050307, AC005057, AP001065, Z95114, AF109907, AP000279, AC004895, AL021707, AF139813, Z83844, AC004662, AL024498, AC004150, AC003966, AC004263, AC003041, AP000553, AC006006, AC006001, U47924, AC006120, AL031286. AL031003, AL050317, AP000556, AL035072, AC005722, AC007151, AC003957, AC003043, AR036572, U91328, AC006211, AP000350, AC007160, AC004859, AC004967, Z92542, AC004491, AC004019, and AC007690.

HCWLH78	1452	935908	1 - 354	15 - 368	Z94721, AC007011, AC006071, AC004797, I34294, AL136295, AD000812, AC001231, AC007666, Z98051, AF190465, AC005736, AC005207, AL121655, AC007536, AL049757, AF196970, AC002365, AC007993, AF018080, AC005664, AF017257, AC005231, AF111163, AC005081, AF207550, AC005233, AC005180, AC007151, AC005821, AJ003147, AC007201, AC005566, AC000086, AF196971, AC009516, AL022324, AC006064, AL008630, AC005072, AP000353, AC002991, AC000080, AC005527, AC005663, AF042836, AC007199, AL022396, AC004985, AP000692, AL033397, AC005512, AC004963, AC009509, AC005872, AC005881, AC004659, AC004878, AC005899, and AC009225.
HCWLH79	1453	959458	1 - 433	15 - 447	AF161019, and AJ131890.
HCWLH80	1454	577886	1 - 387	15 - 401	
HCWSB09	1455	923573	1 - 235	15 - 249	T06288, AI568754, T51118, AA626678, AI160117, T58567, AA347927, AA633892, AI439360, AA515224, AI872227, AI874231, AC006333, AL008721, AC006975, AC003041, AL055681, AL034351, AC007676, AC006026, AL031657, AC005754, AC000052, D84394, AL096701, AC004019, AL021155, AC007637, AL118497, AL049697, AL080243, AC003982, AC002433, AC004972, AC005778, AC000003, AL022238, AC004890, AL021878, AP000313, AL021808, AC005023, U95740, AL049869, AL035072, AL022316, AP000050, AC021092, AC007064, and AF148319.
HCWSB30	1456	771897	1 - 496	15 - 510	AI914747, H06604, AL096701, AC004491, AC007055, AL023807, AC002559, AC007308, AC002470, AC005632, AC004834, AC004099, AP000344, AC012384, AC004967, AC003071, AC005089, AC003982, AC005189, AL031685, AC005915, Z93017, and AC006441.
HCWSB65	1457	728360	1 - 326	15 - 340	AC007536.
HCWTA02	1458	919258	1 - 341	15 - 355	
HCWTA59	1459	531422	1 - 221	15 - 235	
HCWTB01	1460	861850	1 - 358	15 - 372	AA135868, H73889, AA569179, AI281401, N55456, R48980, AA652949, AA302934, AL041895, AI364568, AA643770, AI800852, AI292317, R35259, H24957, AA247731, H66021, H58970, T06292, AA278496, AL037006, N74027, AA320232, AL036665, AA58487, AA856817, AA504865, AL080317, Z99128, AL034551, AC009223, AC008041, AD000813, AP000502, AF134726, AF126403, AC002116, AC002465, AC004139, AC004257, AL049569, AC003108, AC011331, AC004921, AC007388, AC004883, AC006392, AL031650, AL118516, AC006511, AC005488, AL035682, AL050321, D84394, AP000509, AF196969, Y10196, AP000135, AL121655, U80017, AC008134, AC006273, AC004185, AP000031, AC007878, AC004655, AC004914, AF030453, AC006088, AC008070, AC004970, AC004671, AD000812, AL050318, AC005088, AL022324, U47924, U63721, AC000379, AL133245, AC007066, AL022315, AC005726, AC005324, AC000086, AL133243, AL031278, AC008044, AC005255, AC002126, AF024534, AC005480, AC020663, AL121653, AL031597, AL009051, AL049759, AC005578, AL008715, AC007360, AP000109, AP000041, AP000044, AP000112, AC005251, AF111168, AC006025,

HCWTB08	1461	920509	1 - 317	15 - 331	Z98052, AL132777, AC005017, AL022163, AP000065, AL035405, U91325, AL096678, AC007226, AF019413, AP000687, Z54072, AC006047, AL031347, AP000513, AC005746, AL034420, AC009510, AC007993, AL022323, AC006509, AC002312, AC005200, AC005332, AC007350, AC004079, AC005049, AC002522, AC004461, U78027, AL035422, AC005277, AC005921, AC005899, AB022785, AC005015, AC005081, AC004144, AL079342, Z93020, AC005952, AL022330, Z72006, AC004228, AC002558, AC003013, AL049830, AC004228, AC004999, AC005790, AL035088, AC007666, AC006965, AC005089, AC005031, M87889, AC005796, AL023803, AC006117, AL034548, U62292, AC004983, AL033521, AF190465, AC005796, AL023803, AC006117, AL034548, U62292, AC004967, AC005670, AC004854, AL031846, AL133448, Z96776, AC002314, AF045555, AC005747, AC002364, AP001172, AL049749, AL109984, AC004477, AC005071, AC004770, AC005747, AC002364, AP001172, AC004542, AC004596, AC007011, AC005911, AC005300, AC005619, AF152365, AL031774, AC006254, AL049856, AC004865, AC007731, AC007055, AC004033, AC003950, AC006515, AC006254, AL049856, AP000353, AL022313, Z98744, AC002302, AC002036, Z68323, AC004891, AP000564, AC006138, AL035413, AC006146, AL109613, AC005519, AC004526, AC005969, AC002540, Z75407, AP000688, AL050350, AC005102, AC006261, AC004851, AL049780, AL110502, Z75407, AP000688, AL050350, AC004966, AC004651, AJ246003, AP000347, and Z98044.
HCWTB11	1462	965024	1 - 328	15 - 342	AI657485, N83963, N87188, N83707, AC006993, AF045432, U48697, AJ243486, U48696, U39066, AR018815, AF102850, AF001863, AF061744, AF011573, X99056, Y16299, X99058, X99051, X99055, X99060, and X99057.
HCWTB13	1463	861029	1 - 347	15 - 361	
HCWTB14	1464	657621	1 - 315	15 - 329	
HCWTB25	1465	677748	1 - 429	15 - 443	AL045970, AF034803, and AL049694.
HCWTB31	1466	697615	1 - 465	15 - 479	
HCWTB33	1467	702129	1 - 543	15 - 557	AI341548, AA167659, AA716348, AI798489, AA490183, AW274346, AI345654, AW419262, AI613280, AW193265, AW438643, W47183, AI350211, AI341664, AA446657, AA577906, AA551503, AI375710, AA719805, AI688846, AA973803, AA350859, AA599920, AW193432, AA649642, AA483223, AL121385, AI754658, AA486414, AI792518, AW408707, AA601222, AI962050, AA586458, AI061334, AA970213, AI619997, AW118338, AI002834, AI814735, AW080134, AA828712, Z97196, AC002470, AP000045, AC003957, AC006946, AP000501, Z94277, AC007685, AL049569, AC002531, AC004966, AC007274, AC002347, AC005295, AC005291, AL022315, AC005632, AL023575, AL049795, AL049712, AL035659, AC007191, AC007919, AC002430, AL031666, AL008718, AC005696, AL121748, AC007014, AC000353, AC006241, AC004019, AL133371, AC007384, AL008627, AC018769, AC009247, AC005231, AL080243, AC005900, AC005746, AC004987, AC004864, AL096701, AC005393, AC004584, AC007151, AC007128, AL050342, AP000113, AC005778, AC008372, AC003007, AR036572,

HCWTB36	1468	529499	1 - 405	15 - 419	U91328, AL031123, AC005004, AL121603, AC004895, AC008059, AF045555, AC006006, AC007387, AL022163, AC007666, AC005899, Z98744, AC007298, Z69917, AC004972, U95742, AC005037, AL133304, AC006153, AL022323, AC03977, AL035455, AF200465, AC008079, AC005754, AL122021, AL049709, AC006344, AL135744, AL031257, AP000140, AL034351, AL139054, AL035411, AC004814, AC007564, AC005261, AC005784, AL022316, AC005081, AF067844, AC005971, U91321, AC005871, AC004859, U63630, AC007216, AC005071, AC006501, AL049766, AC007676, AC005859, AC004453, AC005839, AC004448, AC004765, AL117258, AC006211, AC008115, AC005209, AL109865, AC004522, AC007308, Z98051, AP000088, Z73967, Z98200, AC004815, AL023494, AP000065, U18399, AC005089, AC003072, AC005944, AC006449, AC002385, Z68284, AC007225, AC002307, AC004029, AP000459, AC008134, AC004167, AP000117, AL049759, and AC002310.
HCWTB38	1469	732440	1 - 340	15 - 354	
HCWTB56	1470	853009	1 - 474	15 - 488	
HCWTB65	1471	861848	1 - 401	15 - 415	
HCWTB77	1472	771887	1 - 434	15 - 448	AC005045.
HCWTB83	1473	730832	1 - 365	15 - 379	AC004963.
HCWTF05	1474	849954	1 - 304	15 - 318	
HCWTF11	1475	966513	1 - 734	15 - 748	
HCWTF19	1476	668358	1 - 353	15 - 367	
HCWTF72	1477	760898	1 - 349	15 - 363	AJ679759, AA313133, AA548692, AI065043, AA968509, AI362442, AA092862, AA128969, T60940, T39390, AI624990, AI620548, F00211, W44359, AW029574, AA904211, AI143653, AI289050, AI284092, H25626, AI254508, AI251696, AA302812, AA564256, AA598608, AW054936, F25640, AA814719, AA515929, AL042869, AA021139, AA557984, AA728911, AA857812, AA779018, AI132929, AA633565, AA457482, N57709, AA437402, N73060, AI917053, AI341664, AA700481, AW029269, AI560054, AW080772, AC006241, AC005755, AC004626, AC007066, AD000092, AC007055, AC009399, AL049636, AL031056, AL049643, Z92540, AC007376, U62317, AC005081, AL049779, AC002350, AC010170, AC005180, AC004832, Z98949, AC004686, Z92541, AB009666, AC004938, AC009181, AC005015, AL021393, AL049540, AC004623, AL117355, AC005920, AL035683, AC005071, AC007151, AC016026, AC004983, AL117330, AP000553, AC006285, AC002088, AC005993, AC008064, AC005826, AC005751, AC009721, AC005065, AL049871, AC007041, Z98304, AC007421, AC010582, AL034549, AC004383, AC008000, AC005829, AC022517, AL049780, AL022329, AL008582, AP000692, AC006236, AC005690, AL022165, AC005599, AB015355, AL021407, AL022316, AC002073, AC005291, AC007541, AC006127, AC002563, AL035659, AC006388, AC008124, AC006121, Z98052, AC006539, AC006277, AC006966, AC005231, AC005736, X51956, AL022396, AC000003, AC007938, AL031315, AC002558, AC006323, AC005666,

HCWTG01	1478	915863	1 - 451	15 - 465	AC007766, AC005874, AF134471, AC002476, AP000495, AC005102, AC006077, AC005519, and Z82215.
HCWTG15	1479	659860	1 - 539	15 - 553	T09124, H29110, AC007239, and AL117258.
HCWTG26	1480	681271	1 - 542	15 - 556	
HCWTG30	1481	954579	1 - 184	15 - 198	N83963, AI657485, N87188, N83707, U39066, U48696, AF045432, AJ243486, U48697, AR018815, X99056, X99052, Y16299, X99058, X99051, AF102850, AF001863, AF061744, X99055, AF011573, X99060, and X99057.
HCWTG44	1482	657911	1 - 559	15 - 573	
HCWTG45	1483	662482	1 - 372	15 - 386	
HCWTG60	1484	740078	1 - 372	15 - 386	
HCWTG66	1485	754823	1 - 426	15 - 440	
HCWTG77	1486	924107	1 - 292	15 - 306	H54210, AA594169, T94094, T94176, AI445316, AI762836, AA601422, AI821390, AA054639, AC004263, Z99943, U95740, AL021546, AC004596, AC005412, AL132777, AC005372, AC018769, AC002091, AC006441, AL021394, AC005696, AC008372, Z85987, AL022476, AL008726, Z97200, and AP000556.
HCWTI81	1487	773341	1 - 339	15 - 353	
HCWTI25	1488	669935	1 - 421	15 - 435	
HCWTI33	1489	701757	1 - 321	15 - 335	
HCWTI38	1490	576883	1 - 355	15 - 369	
HCWTI44	1491	689971	1 - 384	15 - 398	
HCWTI47	1492	720023	1 - 341	15 - 355	
HCWTI54	1493	723080	1 - 263	15 - 277	
HCWTJ01	1494	915878	1 - 322	15 - 336	
HCWTJ50	1495	724072	1 - 297	15 - 311	
HCWTL24	1496	676906	1 - 311	15 - 325	
HCWTL25	1497	598511	1 - 428	15 - 442	
HCWTL51	1498	725482	1 - 425	15 - 439	AA493760, AA494202, AA362037, R10297, AC003003, AC004084, AC003669, AP000344, AC004967, and AC003010.
HCWTL52	1499	573539	1 - 321	15 - 335	
HCWTL58	1500	697623	1 - 380	15 - 394	
HCWTL69	1501	960597	1 - 440	15 - 454	AW393605, AI526146, AI541503, AI526179, AI557778, AI541501, AI541531, AI541493, AI526185, AI557718, AI557740, AI557747, AI541516, AI557797, AI541487, AI557735, AI557779, AI541515, AI526178, AI541489, AB010555, V00124, V00125, J00036, J00037, J00034, J00030, J00038, J00032, and K00133.
HCWTL78	1502	760707	1 - 217	15 - 231	AC004539.

HCWTL85	1503	836155	1 - 426	15 - 440	AA635433, AA302982, T71936, AI249688, AI653525, AA515742, AA603264, AI049643, AA015948, AI587349, R70883, AI245679, AA368659, F31867, AA568204, AA570740, AA483606, T07878, AA229988, T49933, AI198718, AW051819, AA550959, AI289505, AA229159, AW304699, AI038304, AA809153, AA661948, AA516206, AI754567, AI569100, AW192599, N28624, AI754105, AI755214, AI821805, AW028950, AW188742, AW243945, AI791659, AI821056, AI080307, AA666295, AA167293, AA936718, AI792092, AC004216, U91321, AF124731, AC005358, AC002395, AC003070, Z98941, AF111168, AP000513, Z84469, Y10196, AL049776, AC007637, AC004859, AL021394, AC003037, AC004562, AC004913, AL022721, AC004686, AC006479, AF030453, AL049569, AC004765, AC005972, AL022238, AC005251, AC004382, AF001552, AF067844, AC005031, AL035090, AC005212, AC005049, AP000510, AC003954, AC005921, AL021918, AC005231, AC005632, AC007308, AC004832, AC003007, AL049760, Z82244, AF029308, AL109758, Z85986, AF109907, AC004159, AP000501, AC004694, AC005899, AL031431, AC005815, AL080243, AC006455, AC003665, AF196969, AC009509, AC006077, U80017, AL133243, AC006430, AC006050, AC006487, AC006449, AL023575, AC006026, AL121658, AL049709, AC005192, AC005015, AC005081, AL031255, AC004491, AL133245, Z98950, AL121653, AC004020, AL035455, AC007934, AC005325, AC004620, AC004383, AC002312, AL034429, AL109798, AC004816, AC006581, AL031848, AL049694, AC005562, AC006372, Z82198, AC004890, AL034423, AC004797, AC007437, AC004526, AC003990, Z98743, AC005913, AF130343, Z99716, AC005274, Z98036, AC003009, AL031733, AL109827, AL049795, AL031575, AL033530, AC006211, AC007731, Z82181, AC005070, AC007687, Z85996, AP000116, Z98946, AC007899, AC004865, AL109627, Z93020, AC004583, AC005696, AC009721, Z97053, AL031311, AL031681, AC002429, AC004783, AC007388, AF049895, AC005754, AC005160, AC005288, AL035400, AC004477, AL050318, AC007690, AC000379, AC002558, Z97195, AC005412, AC004584, AC004662, AC005901, AL132777, AC005088, Z97054, Z95152, AC002565, AC007617, AC004998, AC005089, AL023553, AP000694, AL049712, AC005829, AL133353, Z99496, AL031121, AC005189, AP000065, AC006007, AC004019, X87344, U80460, AL022336, AL139054, AC002350, AC002044, AL035684, AC006965, AL049872, AC006571, AC009294, AC002347, AC006006, AL139165, Z82188, AC009247, Z84466, Z98200, AC005900, AC003992, AC008134, AB003151, AC003101, AC002059, AC004990, AC007052, AC006120, AC005500, AC005881, AC006060, AC005920, AL034549, AC005225, AC009946, AC007065, AB026898, AL121754, AC005695, AC007533, AC005291, AC020663, AL135783, AL022163, AC005736, AJ010770, and AL031286.
HCWTM16	1504	661569	1 - 378	15 - 392	AA852413.
HCWTO06	1505	934912	1 - 347	15 - 361	AA666332, AI287475, H72530, AA640410, AA640430, H93453, AI049508, AI366993, AA536016, AW020893, AA478355, R99851, AW360845, AW376931, AI873852, AA679936, AA704393, W52505, AW168420, AI783581, AI732120, AA680243, R98221, H70076, AI110595,

HCWTO29	1506	660457	1 - 398	15 - 412	AI207465, H06140, AL120343, AA961035, AA493894, AA574079, AW020088, AI963221, AA829036, AI311647, AI932599, AA449997, AI085242, AW170729, AL037554, AA935988, AW438539, AL038072, AW023149, AA573631, AL121235, AI282479, AI630643, AC003102. AL078463, AC004382, AL021331, AL031602, U96629, AC002511, AC006539, U47924, AC005209, AC005529, AC004525, AL022165, AL034549, AC002470, AC004655, AL008635, AL035450, AC004743, AL031848, AL035587, AF050154, AL031575, AC033517, AC006946, AL035691, AC006965, AC007666, AL133448, AC004466, AL031575, AC004787, AC005954, AC004019, AP000700, AC003029, AC004217, AL135744, AC007199, Z68870, AC007842, AC005952, AP000088, AC002457, AC000052, AL021918, AF053356, AC006271, Y18000, AC000159, X69951, AP000352, AC006430, AL049694, AC004386, AC008115, AC006064, AL022476, AL049830, Z98884, AC004526, AL050341, AC005295, AC010722, AC004752, AC005180, AL031053, AC005512, U62293, AC005821, AC007681, AC007225, AC006115, AL031281, AL031229, AC004797, AC011311, AC005772, Z86090, AC003042, AC005884, AC004520, AP000365, AC005102, AC002996, AP000547, AL031286, AC003982, AC006261, AC004257, U95742, AC005736, AC004485, AL132712, AC005903, AC005585, AP000031, AC004551, Z97183, AC008122, AC005829, AC002377, AP000204, AP000126, U07000, Z98941, AC002425, AP000516, AL121603, AC007993, AC006211, AL139054, AC016026, AL049836, Z82208, AC007216, AC005057, AP000338, AP000201, Z98742, AC005908, AP000244, AC005305, AC008041, AC004602, AC005179, AC005670, AC005078, AL049761, AL031737, Z98743, AC004741, AC004694, AL035458, AC004972, AP000216, AC006449, AP000097, AC006111, AC007055, U07562, X77738, AC005920, AL033376, AP000252, Z77249, AC007536, AC004771, AC006511, AL049779, AL096791, AC005099, AC005486, AC005933, AC002119, AC004611, AL109755, AL049759, AC005971, AL021393, AC006441, AL021391, AC006236, U91318, AP000134, AP000212, Z83840, AC005913, AC006160, AP000553, AC004999, AC004686, AF196971, AL050348, AL031311, AC006155, AL049776, AC005899, Z93783, AC005081, AL078621, AC002045, AL020995, AC007688, AC005235, AF129756, AC005476, AC000353, AC009247, AC005049, AC005088, AL035692, AC007011, AL049632, AF001549, AC003963, AC005280, AL133485, AL035423, AF207550, AC004453, AC007685, AC011331, AC008116, AC005330, AL031433, AL034379, AC005562, AL021528, AL031657, AC007308, AC005764, AC005060, AC006011, AC002115, AC005911, Z84486, AC006996, AC005758, AC002544, AC006479, AC005756, and AC000066.
HCWTO35	1507	706525	1 - 379	15 - 393	
HCWTO52	1508	726444	1 - 425	15 - 439	AA843187.
HCWTO60	1509	681257	1 - 193	15 - 207	
HCWTP13	1510	656678	1 - 361	15 - 375	
HCWTP22	1511	674158	1 - 420	15 - 434	

HCWTP76	1512	1 - 515	15 - 529	Z25525, and Z25531.
HCWTP77	1513	1 - 399	15 - 413	AL035443.
HCWTP90	1514	1 - 380	15 - 394	AA410788, AW130427, AA714011, AA583394, AA644090, AI923052, N23504, AA610509, AA574442, AW148507, AI753113, AW023111, AA191418, AI085867, AL040054, AI123396, AA603530, AA449997, AI962030, AI066646, AW238253, AL037910, AI370475, AA533408, AA659232, AI056177, AA659535, AA601327, AI251576, AA578621, AI278972, AI587583, AI587565, AI908093, AA630672, AL037632, AA833896, AI821987, AA714110, AI732869, AI086603, AW302711, AA579427, AI583466, AA833875, AA526683, AA557982, AA847508, AA702729, AA715814, AA570588, AW188427, AA526326, AW190302, AI279417, AA613624, AI016704, AI755202, AA629540, U48696, J00083, M37468, AF031078, AF030876, U67822, AL109798, U67820, AC004216, AC004408, AC002288, AL109627, AC005104, AF134726, AL020993, AB003151, AC000070, AL023575, AC007376, AC002364, AC005102, AC000353, AC005089, AP000502, AC005520, L78833, AC005305, AL020995, AP000691, AC005529, AC005005, AP000076, AC006023, AC005015, AL049757, Z85986, AC004962, AL049872, AF001550, Z95116, Z97183, L11910, AL031680, AP000689, AL035684, AC004050, AC006511, AC009247, AL133448, AL049766, AC004938, AC007690, AC004834, AC005952, AC005180, AC002546, U91323, U07563, Y18000, AF045555, AC002316, AC005988, AC000039, AL022320, AC003043, AL031056, AP000688, AL022311, AL035659, X76498, Z84469, AC004817, AL022327, AC005291, Z49235, AC005057, AC004967, AP000031, AC002395, AC007298, AC005081, AL136295, AL109801, AL121603, AL139054, AC002306, AL031276, U48697, AC006344, AC004859, AL049569, Z82178, AC003098, AC004813, AC007057, Z85987, AC007510, AP000049, AC005581, AC004883, U85195, AL020997, AC005933, AC002072, U47924, AL121769, AC006132, AL034429, AC004644, AC007450, AF053356, AL035587, AC005227, AC006509, AL078638, AC002219, AC003101, AC004525, Z98048, Z98200, AC004821, AC002369, AP000065, AL133163, AL133246, AL078581, AC008040, AP000311, AC005694, AC002472, AC005261, AC007052, AE000658, AL031295, AC007686, AC005722, Z99755, AC005064, AC005884, AC006538, AC006530, AC005667, AL021328, AP000306, AL035420, AC005037, Z82206, AC006239, AC007435, AL008719, AF093117, AC066953, AP000167, AP000120, AP000052, AC002492, AC005014, AF019413, Z98946, AC002404, AL080243, AC066077, AB023048, Z95152, AP000117, AC005071, AL109758, AC007999, AC002563, AC005736, AC004596, AC006211, AC004253, AC005500, AL049692, AC000118, AC007899, J03071, AC004804, AL049776, AC007731, AL022323, AC000004, U07562, Y10196, AC004815, AP000338, AC004797, AC006111, AC003982, AC005940, AL121653, AC012085, AC006121, AC005841, AC006275, Z93244, and AL031662.
HCWTP91	1515	1 - 521	15 - 535	F05533, F05160, AF095687, and AC008039.
HCWTR08	1516	1 - 334	15 - 348	
HCWTR54	1517	1 - 333	15 - 347	AA904275, AA593471, AW020198, AW167154, AA112924, AA381762, H65464, AI285521,

| HCWTR77 | 1518 | 659506 | 1 - 380 | 15 - 394 | AI886365, AA808998, AI598003, AW268277, H48546, AW117860, AA365586, AA610255, F32893, AI287964, AA745302, AA664604, AI952786, AA372106, AA310557, AI287921, AI754037, AI859280, AI799421, AL039187, M86058, AW166611, AA779783, F15524, AI014378, F26152, AA381747, AA804925, AI762575, AA574442, T80500, AA342189, AA728937, AA653139, AI452836, AW069450, AA528441, AA076427, AI832865, AI244356, AW383952, AI754689, AI291961, AA569202, AA740403, AI342622, AA579278, AI863399, AA987962, AA837715, AI581486, AI598060, AI471418, AA457754, AW103415, AI016704, H79156, AW189367, AA043218, AC005940, M87914, AC005874, AF134471, AC002565, AC005082, AC007055, AL121657, AC006539, AJ006995, AL132987, Z84480, AF053356, AC007226, AC004522, AL136504, AC007151, AF045555, AL035448, AL035405, AL021918, AC005033, AC005954, AP000031, AL031677, AL049780, AL109799, AC005378, AC006137, AC005625, AL031983, AC007263, AL121655, AC002073, AC006544, AC005740, AC006480, AL080242, AL109627, AP000248, AL022332, AC005914, AC002350, AC005081, AL031846, AP000359, AC005924, AC005913, AC008040, AP000354, AL034421, U02068, AC009498, AL031133, AC003083, AC005520, AP000507, AC004921, AL022237, U85195, AC007041, AE000658, AL080239, AB000882, AC020663, AC004841, AC004660, AC004837, AC006468, AC007285, AC007308, AC008033, AL021808, AL121934, AF111168, AC002470, AL031985, AC005358, AC005412, AC002996, Z94056, AJ003147, AC006023, D00591, AC004527, AL035542, AC004049, AC005288, AP000210, AP000132, AF091512, AS1133, A76958, AF037222, AL049589, AC005409, Z97053, AL008635, AC004400, M87918, AC005796, AL031428, AC007225, AC004859, AP000694, AC007848, AF002993, AC006538, AC006080, Z83826, AC002492, AL031053, AL031733, AC002558, AL049557, AC005803, AL135744, AP000255, AC003101, AL049697, AL121658, AL022320, AL021978, AC007011, AC004741, AP000152, AC006501, AC005800, AC004051, AL034555, AF205588, U73023, AL133448, AL020993, AL133246, AP000213, AP000135, AC005907, Z69917, AC007057, AL035089, AL133382, AC016025, AL049776, AC004685, AC004882, AC005821, AC007687, AC007388, D86566, AC004666, AP000208, AP000130, AL109984, AL031255, AC007270, AL022578, AC005291, AP000247, AL049636, AC005993, AC003688, AC005971, AC002394, AC006449, AC005755, AP000498, AC005180, AC004019, AC000381, AL049759, AC006055, AL031681, Z82206, AC005764, AC004150, AL034420, AF222685, AC004996, AC007537, AB020858, AL049694, AC006455, AC005274, AF190465, AL035450, AL008726, AC007735, Z49237, AL035413, D87675, Z49236, AC003663, AC007686, AC004812, AC000015, AL008726, AC007735, Z49237, AL035413, D87675, Z49236, AC000353, AC004771, AC005215, AF038458, AL035587, Z73496, AL008725, AL031666, Z99570, AC006126, AC002319, AP000513, AC006285, AC007707, AC002316, U75931, AC005858, AC004821, AP000512, AC007371, AC004072, AC007993, AC005696, AC006977, AC005513, Z82182, AC007021, and AL022326. |

HCWTS15	1519	654317	1 - 350	15 - 364	
HCWTS84	1520	669926	1 - 348	15 - 362	AB017567, AC005231, AC005911, AL121603, and AC005736.
HCWTT20	1521	669430	1 - 422	15 - 436	AW148697, and N75845.
HCWTT45	1522	576720	1 - 429	15 - 443	
HCWTT47	1523	706527	1 - 342	15 - 356	
HCWTT63	1524	542409	1 - 421	15 - 435	
HCWTT81	1525	712302	1 - 410	15 - 424	
HCWTU89	1526	786693	1 - 393	15 - 407	
HCWTU12	1527	934902	1 - 537	15 - 551	
HCWTU83	1528	780917	1 - 437	15 - 451	AA468131, AI820920, AW303196, AI696962, AL042853, AA493695, AI284640, AA468022, AA507824, AA478048, AW301350, AA478355, AI821670, AW270382, AA478209, AW149313, AI687343, AI873990, AA618452, AW020340, AA857486, AW274349, AI524360, AW302903, AW275510, AI963720, AA568869, AA515334, AJ110844, AI369580, AA515549, F12561, AA847952, AI270117, AI499588, F00107, AI311927, F18164, AI457397, AA541423, AA019312, AA683258, AA468244, AI305766, AA523838, AA720702, AW021735, AI216990, AA661921, AW275971, AW301995, AA618349, AI247199, AL042753, AA640410, AA640430, AL046725, AA483771, AA515909, AL037040, AI567076, AI925579, AL038606, AA490183, AI345157, AW023149, AA834707, AW075948, AA580808, AA192740, AW303002, AA178953, H70994, AW245747, AW028429, AA584581, AA908687, AW193265, AI801482, AA491650, AW088846, AA719292, AI053911, AA188664, D44638, AL038072, AA588001, AA551552, AJ567842, AI821494, AW163293, AI732865, AA724333, AI281881, AA548058, AI064952, AA521323, AA521399, AW440545, H18354, C04454, AA167055, AI133164, AL138455, AA493894, AA631507, AL039145, AA351056, AW340844, AI744826, AI254913, AI056177, AI865905, AA702729, AA780944, AL135357, AA523242, AW264934, AW103758, AW069510, AA491862, AA428792, AA410788, AA747070, AI580250, H23653, AL134957, AC007444, AL121603, AC006511, AC006371, AC005701, AC004987, AC008372, U95742, AC006965, AC006323, AC005242, AL009029, AP000459, AC007216, AC005194, AL049874, AL035405, AC007274, AC000353, AC006999, AC003003, AL031003, AB020862, AC007376, AF038667, AC009044, AL009179, AC005004, AC006211, AC005772, AC005884, AC007382, AL031666, AC004903, AL132826, Z98941, AC006336, D83989, AC004686, AC010202, AC004966, AC004861, AJ239522, AC006998, AC004531, AF001549, AC005146, AC005318, AC005209, AC006479, AC004650, Z98744, AL035448, AC001231, AC007684, AL050318, AC050308, AP000055, AP000170, AL109985, AC006044, AC004858, Z93023, AL050308, AC005330, AC004865, AC005768, AC007298, AC007270, Z99716, AC005291, AC003692, AC006058, AC002984, AC006960, AP000962, AL133445, AC004519, U57008, AC005815, AC002299, AC002984, AC005358, AC004611, AC007226, AL031668, AC005011, AC006004, AL034420, Z82198, AC005358, AC005180, AL133399, AC031429, AC008079, X54179,

HCWTU84	1529	666642	1 - 153	15 - 167	AC002425, AC005968, AC005567, Z82210, U75931, AL022240, AF196779, AP000049, AL023575, AC004945, AL049869, AL132985, AL049829, AL031446, AC004901, AC005787, AC006203, AC007051, AP000311, AC008055, AF165142, AC002402, AL023579, AF091512, AC004879, AC004690, AL096774, AC007488, AC002531, U18392, AL109865, AL122021, AL031681, AC008064, AL121694, AC007685, AC008080, AC004151, AL109847, AC004019, AC008101, AL136295, AL022163, AC005529, AC004741, AC002312, AL022400, AC005921, AC002558, AL109755, AC002378, AL021877, U62293, AF053356, AC004979, AC006512, AL023755, U81831, AC005193, AF090940, U07562, AC000025, U18394, U91322, AB020859, AC006205, AL008633, AC005527, AP000168, AC010072, AC005535, AC005411, AC004821, AC007263, AF042090, AC003982, Z68756, AL079340, AC006039, AL096712, AC003688, AC007919, AC007324, AC005488, AC012627, AC007011, AC002395, AL031281, AC004259, AC004070, AL023284, AC008009, AL031767, AC008119, X75335, AL049795, AL049797, AJ006996, AC012599, AL078603, AC007021, AC005520, AC005154, AL030997, AC004638, U91319, AC005376, X87344, AL031012, AP000693, AC002289, X54181, U67831, AF049895, AC008127, AL121934, AC007308, AL021808, AC010170, AC004972, AC004600, AL031390, AC005084, AL049709, X76666, AC006344, AC002073, X55926, AL035703, AP000088, U57009, AC002350, AC005253, AC009227, AC002564, AL022322, AC004884, AL023879, U95740, AC000111, AC006285, AF015148, AB020868, AC007848, AL049780, AP000959, and AC006530.
HCWTV17	1530	725862	1 - 416	15 - 430	AI674544, AA291234, AA284361, AW361644, and AB020718.
HCWTV62	1531	742696	1 - 564	15 - 578	N83991, N84712, N88601, N88782, N89520, AA093224, N84830, AA247964, N84855, N83992, N86694, AA095359, AA247827, N84048, H58760, N84718, N55698, AA096066, N83993, N83168, AA096046, AA471338, AA095641, N88518, N84829, AA093861, AP000529, S78798, AF103726, U48696, AF045432, AF032922, AF102850, AR066487, AF039698, U39066, AJ243486, and AR066480.
HCWTV73	1532	574912	1 - 535	15 - 549	AC006013.
HCWTV88	1533	861846	1 - 543	15 - 557	
HCWUA19	1534	668355	1 - 399	15 - 413	AL044458, AA610644, H57751, H57752, W27084, AI114772, AI890971, Z99716, AC005180, AL031311, AC006271, AC004883, AC000353, AC007226, Z84469, AC009399, AC005763, AC005015, AD000092, AL031427, AC007993, AC005520, AF111168, AF165926, AC005703, AC006057, AC002461, AC004019, AC004881, AC007666, AL023803, AC005011, AC004477, AC007193, AL035420, AC000052, AL031286, AL021707, AC007240, AL109984, AC004859, AC005829, AC005244, AC005940, AC005081, AL049538, AC006449, AC002299, AC004228, U73479, AC006139, AP001068, AL031584, AC008125, AL049872, AL022313, AC007057, AC005231, AC009542, AF053356, AL031678, AC002544, AP000558, AL035423, AJ011930, AC002312, AL008723, AP001053, AC002425, AL023284, AC007421, AC002350.

HCWUA23	1535	577964	1 - 407	15 - 421	AC005243, Z95116, U47924, and AL117352.
HCWUA43	1536	715000	1 - 369	15 - 383	AC005837. T07420, D51809, AA769056, AA808064, AA715709, R82432, T03401, AA715507, AA669616, AA632836, AA411741, W39287, W60522, AA445951, AA427808, F10773, AA812542, AA320941, AA745373, AA461274, AA397415, AA513484, N30876, AA577706, N44146, AI819391, AI903464, AA244267, AI249365, AI174489, AI884922, RS3995, AA741403, W96522, AA325787, AA601390, AA343014, T41164, AA610381, N27615, AA470567, AA634926, AA907222, AA594179, AA780906, AA078428, AA487720, AA668166, AA774119, C15362, T41132, AA730359, AI252010, AI252880, AI583448, AI903448, AA355128, H29960, AI799421, AA058499, H94979, AA740571, AA648560, AA130855, AA216375, AA508026, R94909, AI671077, AI929298, AI929825, AA206594, AA376358, AW157180, AA663437, N40760, AL135018, AA635413, AA716440, AA594746, AA598740, AA600127, AI866377, M78065, AI038577, AI933478, AA508444, AA010973, R83878, H53109, H52053, N72439, AA532732, AA084439, AA827383, AA351808, AA653503, N73724, AI872073, AW342143, AA745302, AW272389, AA649488, AC006388, AC005081, Z99127, AB003151, X69951, AB020865, AP000300, AP000045, AP000113, AC005509, L13711, AC002401, L44140, AF111163, Z74739, AC004408, AC004616, AL050321, AF069074, AF125348, AC002425, AC005017, Z94056, AC005338, AP000565, AL008707, AP000557, Z98885, AF181897, AL096843, AL031431, AC002544, M84472, AC004755, U34879, U63721, AL021707, AC000024, D87011, AL078596, U91326, AL031664, D88270, AL050404, AP000563, AP000133, AP000211, AC004687, AF012339, AC005514, AL031602, AC002375, AL034350, AL079303, AC005015, AL096766, AL049761, AC005837, L35532, Z68162, AL031657, Z82203, AC008115, AC006064, AC005280, M22469, M18000, AB022537, AP000353, AP000354, U91323, AC005740, AC009802, AP000556, AF112441, AL031186, AC004583, AC007666, AP000497, AC007510, AL133249, U52112, AC000052, AC005722, AC004019, AR062818, AC005355, AL050332, U89337, AL031672, AL050341, AC002565, AC006146, AC005316, AC005026, AC005011, AC005317, AC007486, AC021092, AC000086, AC006273, AP000228, AP000140, AC006966, AL031005, AC005996, AC004000, L78810, AC005486, AP000088, AF129756, AP000270, AP000032, AP000555, AP000291, AP000256, AC005372, AC005868, AP000098, AP000111, AL034451, AC005208, AC006571, AC007226, AC005846, U17576, AB001907, AF195658, AL023694, AC005543, AL096794, U82668, AL049538, AL035659, Z82195, AC006014, AC004817, Z98044, AL033504, AL121603, AC007993, AC020663, AC005488, AL049780, AC006530, U68061, U95090, AL049856, AC005775, AC004825, AL021154, AC004253, AL009031, AL021578, AC002326, AL135744, AL050140, AP000699, AB029020, AP000348, U07563, AL049734, AC004659, AL035603, AL132800, Z99716, AC005747, AL035089, AC005551, AC004070, AC002412, AL035455, U52111, AL021808, AC005571, AC005744, M26434, AL035398, AF045555, AP000502, AP000161, AC004750, AC005568, AC005568,

					AC003042, AC002115, AL033538, AL008730, AL031781, AP001054, AC004835, AL035696, AC005244, AC005005, AC002352, AC005828, AC007014, AC012384, AC016027, AF134726, AC016830, AC003101, AC007450, Z83844, AC007917, AC004185, AC006047, AC001643, Z82248, AC004156, AC004560, AC006561, U62293, AC003026, AL035072, AC005031, AL031284, AL033530, AC005480, AC005250, AL021328, AC005057, AP000509, AF030453, AC004706, AC006344, AF207550, and U91327.
HCWUA90	1537	706532	1 - 360	15 - 374	
HCWUB03	1538	923556	1 - 446	15 - 460	
HCWUB08	1539	958770	1 - 392	15 - 406	AI633478, AA652675, AA489390, AL044458, AA693433, AF114095, AI080086, AA630476, AI567976, AI623505, AA369494, T41235, AW162664, AW439455, N24046, AI821287, AA502660, AAS02509, AA167178, N70293, AI869094, AW085751, AI014872, AA341391, AA659303, AI821605, AA650288, AI640905, AI625042, AAS99712, AA622637, N62478, AL042731, AAS07499, AW328185, AI214574, R43468, AA829795, AI690379, AAS95661, T62614, AA854460, AA648942, AIS00151, AI392771, N92752, AI935827, AIS40319, W04238, AA228268, H65404, AI753131, AC005048, AC007964, AL050307, AC004966, Z69650, AC004802, AL078581, AL049843, AC005839, AL050318, AP000497, AL132987, AC005516, AF031076, AL035684, AC004967, Z93931, L47224, L47225, L47226, AC002401, AL031295, AC005288, AC004213, AL022723, AL096716, X59875, AF060911, AC010349, AC004856, L09706, AP000250, Z98272, AC005257, AC005202, Z84721, AP000251, U62293, U63721, AC007536, Z81364, AC003109, Z98051, Z93244, AC005994, AC004874, Z99291, U78027, AC005057, AP000211, AP000133, AP000030, AP000502, AP000065, AL049757, AL035420, AL021393, AL034423, AL008721, AL035458, AL034420, Z98742, Z93017, Z93928, AC002039, AC007845, AL050343, AL035422, AC005343, AC003665, AP000248, U07000, AL024507, AL132716, AL049646, AP001046, AC005137, AL117337, Z98884, AL031584, AP000501, AC016025, AC007686, AL133163, AC005726, AL049779, AC005291, U91322, AC004019, AF205588, AL050323, AC006274, AL133404, Z97183, Z97184, AC004125, AC002504, AC004668, AC002433, AC004962, AL033527, AC004073, AC007879, Y14692, AP000269, AP000103, AP000033, Z97876, AC006162, AL09798, AJ010598, AC005361, AF200465, Z85986, AC004805, X87344, AC004526, AC005681, Z48051, AC002049, AC006125, AC002054, AL049540, AL035588, AL049690, AC002472, AC007664, AC006115, AC008018, AL121652, AL135744, AL049872, AC004000, AC000045, AC005358, AC005180, AB023178, AC003030, AP000152, AP000010, AC005231, AC004850, AC005822, AL049569, AL049776, AF031078, AF209704, AC005484, AF043233, U21936, AR022305, M14949, AF030876, AB007874, M31061, M33764, AC002551, X16277, M81740, X69907, AR007118, AF106656, AL023577, AL031845, U73640, AC005779, AC002103, AC004754, AC007201, AC005175, AC005944, Z81367, AC006167, AC005372, AC000401, AC005937, Z82901, AL049576, AL031321, U71148, AL021453, AC005755, AL133382, AC004776, AC006468, AC004771, Z97352, AL031597, and

HCWUB74	1540	765274	1 - 346	15 - 360	AP000503.
HCWUB83	1541	853008	1 - 434	15 - 448	AA804937, AI554512, AW084364, F03946, AL049761, Z93241, AL049631, AC018633, AC006443, AC004966, AC002045, AC005280, AC005484, AL035450, AC005940, AC005086, AC005562, AL132642, U91318, AL031670, AC006946, AC004217, AC005670, AL050307, AL031577, AL008628, AF047825, AJ251973, AC005305, AC006581, AC009516, AC004967, and Z81365.
HCWUC39	1542	572977	1 - 419	15 - 433	
HCWUC64	1543	588122	1 - 300	15 - 314	
HCWUC94	1544	721663	1 - 487	15 - 501	
HCWUD64	1545	746332	1 - 348	15 - 362	AI902698, AL121235, R76463, AI633479, AI828710, AA679936, AI732120, AA680243, AA478355, AA493894, AA654781, AI873852, AA366312, AL119649, AA018823, F00231, H84435, F00984, AI088768, F05324, AI049508, AL121207, AA618596, AW003867, AA012964, R86218, AA219150, AI536932, C14877, C14616, T84449, AA728990, AC002395, AC005071, AC004656, AC004159, AF038458, AL035405, AC004760, AC010205, AC005409, AC000159, AC005576, AC004983, AC006111, AC006050, Z85986, AC005484, AL121595, U95090, AC004841, AP000365, AF001550, AC004019, AC004253, AC006947, AP000514, AC004084, AC007637, AC006468, AL049781, AL050317, AC020663, AF111168, Z98752, AL034429, AC002404, AB003151, AP000688, AC007308, U73167, U90094, AC005399, AC009181, AL117338, AF200465, AC005619, AL031651, AC006211, AP000010, Z99716, AC007371, AL031311, AC004520, AL080243, and AC005943.
HCWUD83	1546	827340	1 - 429	15 - 443	AI657485, N87188, AA825827, U48697, AJ243486, U48696, AR018815, AF045432, U39066, AL031276, AC004223, and AC004596.
HCWUD85	1547	529221	1 - 282	15 - 296	AC004582.
HCWUD93	1548	574856	1 - 305	15 - 319	
HCWUF05	1549	849929	1 - 213	15 - 227	
HCWUF30	1550	691734	1 - 458	15 - 472	AA585101, AI525431, AI525556, AI540967, AI541374, AI541365, AA585476, Z30131, AI541535, AA585439, AI541514, D61254, T23957, R29445, R28735, T11028, AI546999, AL037436, AL037435, AI541523, AI546891, AI547039, AI525306, AI557731, C16300, T23985, T41289, R29177, AI525316, AI546945, AI526073, Z2835S, AI557807, AL040463, AL039915, AL043612, AL041197, AL040155, AL041346, AL041096, AL047012, AL041358, AL041277, AL041163, AL041098, AL040621, AL043538, AL041324, AL040464, AL044162, AL041086, AL043496, AL041296, AL041233, AL043444, AI541307, AI541017, T23888, AL045725, AI525320, AL041140, C16305, AL040193, AI557262, AL047219, AL041227, AL047057, AI557170, AL047170, AL040119, AL047036, AL040553, AL041292, AL041051, AL047183, AI526140, AL041131, AL046330, AL041133, AL041238, AL041142, AL045817, AL040529, AL040322, AL040625, AL040510, AL043467, AL040149, AL044186, AI557787, AL044037, AL040091,

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AL037279, D57186, AA585155, AI541205, C15189, AI557796, AL043440,
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AI540920, AI525653, R28895, R45895, D61185, R28967, R28965, AI525339, AA585440,
AI557763, R28892, AI557740, AL134524, Y16359, D78345, AR038762, A25909, AR062871,
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A20702, A20700, A43189, A43188, A85395, A85476, A98767, A93963, A93964, I63120, A98420,
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D13316, AJ230972, AB025273, AR051957, AJ231009, A70872, A70869, AR035975, AR035977.

HCWUF40	1551	703804	1 - 313	15 - 327	AC005913, I18302, AJ231028, E17098, I66495, I66494, AR064707, A22734, AR022273, AR035974, AR035976, AR035978, AJ230951, AR054723, AJ230867, AJ230845, I36244, X55486, AR051864, AR018815, AR051865, A06631, S60422, AJ231011, AF045432, AR063812, A24548, U39066, U48696, A24546, Y14219, U48697, I05845, X82786, AJ230996, AJ244006, X76012, I03669, I03668, A16035, AR009152, I33632, AR003381, X99056, I66481, A83642, A83643, I15353, X99052, A68112, A68104, Y16299, X99058, X99051, AF011573, I66488, I66489, I66490, I66491, I66492, I66493, A83151, E03654, A05993, and A05975.
HCWUF46	1552	656680	1 - 435	15 - 449	AL135783.
HCWUF54	1553	933212	1 - 232	15 - 246	AI032481, and AF049579.
HCWUF84	1554	686711	1 - 162	15 - 176	AL035530.
HCWUG43	1555	697616	1 - 388	15 - 402	AL134048, AA248952, AL049742, and AL022240.
HCWUG59	1556	573548	1 - 396	15 - 410	
HCWUG93	1557	920882	1 - 229	15 - 243	
HCWUH17	1558	662478	1 - 280	15 - 294	AA632445, AJ424340, T98279, AA719535, and AC004749.
HCWUH25	1559	677747	1 - 397	15 - 411	AA374775, AI252506, AA643442, AA568298, AI580906, AI834731, H45320, AA223932, AI471887, AA601318, AI016704, AI057350, AA446767, AA643448, AA643444, AA808796, AA643452, AA643454, AA643457, R95060, AA429371, AW169581, T40452, AA501762, H10143, AI205009, AI340641, AA602438, AA090344, H10859, AL039187, AA812094, AI812082, AW265073, AA630834, AL037040, AA341263, AA814778, AA669434, W69364, AA808263, AI298246, AA610491, AI344812, AI932599, AJ334464, AW268973, AA528603, AI754661, AA493864, AA664790, AI277226, AC002364, AC005159, Z93018, AC006213, AL049736, Z99716, AC005972, AF015722, AC007541, AB000880, AC004180, AC004517, AP000507, AB000882, AC000882, AC004534, AC007556, AL117337, AC007052, AL133445, AL023284, AC008033, AL031132, Z98742, AL096773, Z85986, AC005901, U91326, AC004448, AC007281, AC007542, AL022313, AL096773, AC002544, AC005193, AF165926, AJ229041, U57645, Z82181, Z68162, Z69838, AF196969, AC002544, AC006537, AL031257, AC004558, AC012627, AL031904, AF015720, AP000511, AP000097, AL049776, AL079339, AP000154, AP000012, AL034370, AP000961, AC006487, AL080242, AL049635, AC009721, AC004968, AC005288, AC005841, AC002036, AC004099, Z93020, AC004257, AL022237, AC004508, AL109963, AL031055, AL132987, AC005261, Z98950, AC007879, AC003041, AL031659, AC007051, Y11493, AB020715, AC007066, AL031685, AC004024, AP000495, AB016897, AL133163, AL031277, AC005152, AB007955, AL109610, AC006167, AL031057, AC006027, AL021453, AC002551, AL035419, AC006141, AC007324, AL022326, AC005153, AC004849, AC008101, AC004821, AC008079, AC007041, AC006538, AC004125, AC005291, AC004933, AL117342, AC005832, AC005531, AL049777, Z86090, AC005498, AC004934, AC002470, AC004227, AC007240, AF064861, AL033527,

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HCWUH85	1560	752790	1 - 366	15 - 380	AI460103, AA574077, AL049780, AC007055, Z84469, AC005187, AL133246, AL022163, AP000336, AP000215, AC003667, AP000156, AC004841, AL035653, AC005746, AP000014, Z99496, AC009721, AL021453, AC004024, AC004584, AC004616, AB003151, AP000688, and AL049776.
HCWUI10	1561	964028	1 - 390	15 - 404	
HCWUI17	1562	662483	1 - 374	15 - 388	C14614, AI199949, AI189004, AI963797, AA525071, C75012, AJ010597, AC005730, Z69650, AC005516, AC002465, AC005726, Z82190, AC005406, AC005530, AJ006995, U47924, AC006547, Z94277, AC001551, AC005664, AC005859, AC002350, AC005971, AC006013, AL109801, AL049843, AC000075, Z93244, AC005031, Z98950, U80017, AB023048, AP000511, AC002347, AL022723, AC007386, AL122003, and AC004477.
HCWUK13	1563	656679	1 - 378	15 - 392	AF186189.
HCWUK56	1564	733122	1 - 443	15 - 457	AC007681.
HCWUK77	1565	771883	1 - 513	15 - 527	
HCWUK95	1566	615550	1 - 266	15 - 280	
HCWUL03	1567	923572	1 - 478	15 - 492	
HCWUL19	1568	668361	1 - 301	15 - 315	
HCWUL24	1569	968380	1 - 413	15 - 427	
HCWUL32	1570	523358	1 - 301	15 - 315	
HCWUL36	1571	849901	1 - 424	15 - 438	
HCWUL47	1572	720024	1 - 513	15 - 527	
HCWUL69	1573	740373	1 - 244	15 - 258	AI657485, N83963, N87188, N83707, U39066, U48696, U48697, AR018815, AF045432, AF011573, AF102850, AJ243486, AF001863, AF061744, X99056, X99055, X99052, Y16299, X99058, X99051, Y07542, X99060, and X99057.
HCWUL74	1574	690750	1 - 354	15 - 368	
HCWUL83	1575	527566	1 - 543	15 - 557	
HCWUN05	1576	928191	1 - 287	15 - 301	F35659, AW074398, AA308806, AI499094, AW069807, F31204, AA365347, AI110770, AI914706, AA558697, AI284640, AI471481, AA515128, AA228329, F36273, F19258, AA318652,

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AI561335, AAS84749, N71724, AI742771, F32894, AI830390, AI053672, AW419262, AAS59290,
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AI863283, AW264959, AA133986, AI886629, AIS61060, AA366035, AAS84458, AW264973,
AW265197, AA658235, T07451, F26152, AA098922, AA077817, AA366820, AI446464,
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AA292574, H64560, AA095511, F25135, AA176924, AW337985, AW088058, AL046409,
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AA434484, AI287528, AW406755, H16048, AA878495, AW238016, AA747472, AL079645,
AI365988, AI613280, AW303876, AI064864, AW276827, AA344959, AW406447, T16592,
AI951889, AI951928, AI341664, AW339687, AL042856, AI281903, AA775049, AAS81914,
AL138265, AA973575, AI635272, AW072433, AA605274, AA838309, AW339568, T40338,
AA377730, AL120483, AA743956, AAS4627, AI761471, AI474713, AI648558, AI216799,
AA491814, AA626678, AA745582, AA361344, AI859251, AA714595, AI871992, F18974,
AA652057, AA649642, AA641989, AA856981, AI434706, AIS65245, AW406162, F24284,
AA669840, AA826032, AI887483, AW175641, N43757, AI287651, AA744074, AA745355,
AA744088, AL079935, AI962050, AAS57325, W95976, AA837755, AW264969, W95841,
AL041690, AI266576, AAS57879, AW029038, AA610491, AA733208, AI344844, AAS79249,
AW327360, AI375710, AI917271, AW408717, AAS69187, AA310158, AA228420, AA450199,
AAS15051, AW270270, AA843450, AI312149, AA229785, AIS58343, AIS14735, AA745410,
AI929531, AI872421, AW162489, AA378623, H92005, AI493634, AI246409, AA177061,
AI148277, AI279165, R68874, AI279700, AW022046, AA022046, AA664535, AI037914, AI270343,
AW172727, AA654968, AI003743, AI921649, AL039958, AIS53886, N23649, R93061,
AA654771, AA125788, N25296, AW236342, F32705, AW439558, R91994, AI890928, AI299050,
AI890923, AI904894, AW162049, AA650244, AI890570, AI376100, AL042420, AL120687,
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	1577				
HCWU010					

HCWUO81	1578	756978	1 - 439	15 - 453	AC004890, AC005622, AL121655, AC006312, AP000501, AC007934, AJ246003, AC004655, AC005086, AL133448, Z93930, U07563, AC004020, Z95115, AP000555, AC007030, AL133371, AL021154, AC004525, AL031774, AC002551, AC007786, AL035415, AC004491, AC005071, Z99916, AJ003147, L78810, AL050318, AC002312, AC005578, Z84476, AC005327, AL109939, AL078581, AL049757, AC002476, AL109984, AC005619, AC008044, AC005412, AC005594, Z99943, AC005088, AL023807, AC000039, AC007917, U63721, AF001549, AC003101, AC006965, AL024498, U85195, AC005288, AL031846, AC005924, AC005081, Z98743, AC006512, AL109623, AF111168, AL049712, AC007637, AF129756, AP001052, AC004832, AL034548, AC006449, Z68273, AL031282, AC005844, AP000557, Z98941, AF124523, AC007421, AL023553, AC006254, AL031721, AF030453, AC002300, AL020997, Z93017, AL049650, AL049776, AL022476, AC004150, AC002563, AC005099, AP000275, AL031255, AE000658, AC005914, AC005784, AC004257, AP000355, AL031685, AL031283, AC004913, AC007731, AC004777, AC002565, AC004967, AC006509, AC005755, AC005500, AC006960, AL031311, Z99716, AC006536, AC004967, AC005971, AP000252, AC004611, AC006050, AC007226, AF024533, AF126403, AC003003, AC005067, AL109847, AC006261, AC004382, AL008715, AL031848, AP000553, AP000105, AP000037, AC005746, AC005049, AC002302, AC004084, AC004815, AL022313, Z85986, AC004448, AC004560, AL034402, U95739, AL021940, AC002997, AC004928, AP000466, AL049653, AL035400, AC001231, AC004813, AC006211, Z83851, AL034423, AC004883, AC006160, AC004755, AL022316, AL121603, AC005726, AC004209, AC005874, AP000121, AF134471, U91323, AL109798, AC007868, AC007011, AC002368, AL136168, U73634, AC005779, AC004905, AL031845, AC002544, AL049576, AC007240, AC008123, U29895, AC008033, AC008018, AC007686, AF184614, AC002314, and AC005972.
HCWUP64	1579	746328	1 - 264	15 - 278	AW440373, AW139492, AC004150, Z98747, AC007204, and AC006539.
HCWUQ02	1580	968431	1 - 483	15 - 497	AI657485, AF102850, AF001863, AF061744, AF045432, AJ243486, U39066, U48696, U48697, AF011573, and A70147.
HCWUQ77	1581	719064	1 - 379	15 - 393	
HCWUR43	1582	714529	1 - 542	15 - 556	AI054414, AF001552, AC005209, AC006312, AL022313, AF134726, AL009181, AF109907, AC005940, AL021937, AC002477, Z99716, AC005288, AC004382, AP000553, AF111168, AL022315, AC007227, AP000557, AC004975, D87675, AL034420, AC004922, AL031311, AC004149, AL022320, AC005081, AC006241, U07563, AL031255, AL008582, AC008372, AC004447, AL080243, AL035495, AL022237, AC005696, AC005067, AL031281, AC005300, AC005102, AL031602, AC005057, AF030453, AC004876, AC005565, AL096774, AC004841, AC005264, AC016830, AC005335, AL034423, AC005730, AC003038, AF129756, AC004883, AC006211, U62293, AL133448, AB023049, AC005484, AC004531, U89337, AC005088,

HCWUR83	1583	958776	1 - 379	15 - 393	AC006538, AC005874, AF134471, Z73359, AC006449, AC004796, AC007216, AC005899, AC002425, AL034417, AL031005, AC004150, AC006480, AC005619, AC006026, AC005089, AC007308, AL049569, AL035681, AP000556, AL049539, AC005519, AF196969, AC005280, AC007686, AL035587, AP000115, AC005193, AC002301, AC007421, L78810, AC003007, Z83844, AC005531, AC007387, AL031666, AL049757, AF031078, AC004685, AC005015, AC004854, AC002375, AL031589, AC005261, AC016027, AC005190, AC002404, AB003151, AP000142, AP000248, AC005377, AC006273, AC005225, AF030876, AC005666, AP000689, AL035249, AC009330, AL035072, AP000305, AC009247, AC004752, AC008101, AC004263, AC009516, AC005670, AL049636, AL021546, AL021155, and AL031662.
HCWUR95	1584	711186	1 - 492	15 - 506	AI361673, AC002094, and AC005955.
HCWUS02	1585	919224	1 - 292	15 - 306	AI914239.
HCWUS29	1586	690351	1 - 615	15 - 629	AA165563.
HCWUS63	1587	542330	1 - 445	15 - 459	AI652927, AB002803, AP000241, AF124731, AP000201, AP000097, and AF026199.
HCWUS72	1588	855815	1 - 318	15 - 332	AF097485, and AC005089.
HCWUT24	1589	676902	1 - 386	15 - 400	AI653905, H73720, AA080863, AA069022, M78005, AI300507, AL031228, AC006130, Z96641, Z85986, AC005089, AC004106, and Z96498.
HCWUT46	1590	861836	1 - 474	15 - 488	AA122111.
HCWUU04	1591	614859	1 - 348	15 - 362	H82979, F00112, AA662982, AI963797, AA516310, AI199949, AI189004, C14614, AA524604, N59038, AC004242, AC007666, AL031670, AL021918, AC004797, AP000346, AL109914, AC004020, AC003667, AC004019, AC005529, AC006449, AF165926, AC004887, AL008723, AL133163, AC007371, U47924, AC005214, Z93023, AC005288, AC006014, AC007055, AC004477, AC007263, U82828, L44140, AL109623, AB023054, AC006547, U80017, AC005664, AL021707, AC000075, AC004081, AC005071, AL031293, AC005031, Z85987, AC005057, AC005752, AC007686, AF205588, Z93017, AC000003, AC004057, AC004929, Z95113, AL008718, AL121652, AC005317, and AL031229.
HCWUU07	1592	861959	1 - 496	15 - 510	
HCWUU16	1593	661570	1 - 307	15 - 321	
HCWUU58	1594	735736	1 - 223	15 - 237	AA525331, AA431350, AA431634, AA705118, AA526092, AA665517, R79654, W92302, AI733660, AI821775, AA225548, AC007372, AC004802, AC004911, AC006277, AC002395, AC004056, AL133289, AC002394, AL031848, AC004832, AC004752, AL049823, AF019664, AL031657, AL035703, Y13901, AL023807, and AB016897.
HCWUV78	1595	574908	1 - 433	15 - 447	
HCWUV17	1596	662485	1 - 340	15 - 354	AI064787, AA699618, AI560413, H82557, AI525319, AF169482, AA525464, AA765736, AA478355, AA974503, AA737432, AII74766, AA610491, AA502866, AA468131, T47970, AW149313, AI866856, AI223604, AW002350, T86545, AI093030, AA846952, AW023389,

F07743, AAS33819, AI377567, AI377556, AI377505, AA808877, H90814, AI334464, AI284640,
AI133297, AA702729, AAS81903, AA468022, AL120933, AL038072, AL120927, AAS16339,
AI471887, AA326372, AI344812, AW410400, AI751216, N41888, AW023149, AI333016,
AI039584, AW302087, R44116, AW275671, AI200051, AW302080, AI674174, AA299189,
AAS33303, AI635819, AW103758, AI473475, AI250083, AW080777, AA493975, AW084466,
AL042547, AAS83229, AL037040, AW268973, AC007688, Z97988, AC002127, Z68287,
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AP000159, AC007016, U53331, AF123462, AL008732, AJ007702, AF061016, AL024509,
AC002453, AF134726, AL049776, AC002470, AL049781, AC007102, AC005215, AP001053,
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AL031311, AC005763, AC010849, AC004827, AC004257, AC002309, D87013, AC000065,
Z95704, AC007628, AC007308, AL133485, AL132774, AL034379, AC003977, AL022394,
AL031391, AL121852, AC006207, AL049872, Z68226, Z83838, AC005880, AL121823, L29074,
AC006210, Z83845, AC003083, AC007252, Z93928, Z84490, AC005245, M36917, AC006276,
AC006167, AC004541, AB023050, AC004841, AL035668, AL022328, AP000511, AC007030,
AC006965, AC007014, AC005829, AC002381, AC004922, AC008122, Z98052, AL109984,
AC010202, AF196779, Z83840, AL050341, Z82975, AC003085, AL031228, AL035398,
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AL031589, AC003682, AC002395, AC002064, AC006230, AP000962, Z97353, AL135744,
AC005516, AC003101, AL031673, X97869, AP000348, AC005512, AC002369, AC007666,
AC006531, AF030453, AC000052, AB014085, AC004187, AC004455, AP000515, AL034399,
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AC005695, AL109839, AF084555, AL078585, AC005060, AL035079, AL009029, AP000476,
AR060470, U29953, AC004236, AF176915, AC006576, Z94721, AF107885, Z69705, AC004754,
AL049699, AC004139, AC005399, AC007934, AC005088, U96629, AP000049, AP000193,
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Y10697, AL021546, AC007057, AC004034, U89336, AP000022, AC005072, Z93096, AC003688,
AC005049, AC006037, Y18000, AF131217, AC008062, AC005519, Z93931, AC007388,
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AP001172, AC004895, AC004882, AP000355, AC005529, U73633, AC005387, AL035402,
AL031257, AC004596, AL033518, AL078615, AC002543, AC005242, AL031313, AC005822,
AC004216, U85195, AE000658, AC004019, AL080276, and AL031668.

AL049775.

T98176, AF111168, and AL020997.

HCWUV24	1597	676909	1 - 386	15 - 400
HCWUV28	1598	686171	1 - 552	15 - 566
HCWUV65	1599	676334	1 - 359	15 - 373
HCWUV76	1600	615554	1 - 337	15 - 351

HCWUW01	1601	915860	1-493	15-507	
HCWUW04	1602	614844	1-340	15-354	AA368835, H59296, H96676, H85763, H84047, AW069273, AP000331, AP000172, AP000057, AP000125, AC004109, AC007687, AF126403, AL035458, AP000688, AC004801, AL035249, AP000687, Z46936, AC005697, AC002425, AC006132, AC005015, AP000039, AF006501, AC005070, Z98950, AC004582, AC007240, AC005887, AC004854, AC004893, AC007535, AL035079, AC007999, AL031729, AP000280, AL031587, AC007637, Z99291, AL049760, AC009263, Z99497, AC007114, AC005871, AP000107, AL031281, AC002472, AL034561, AP000694, AC007664, AB002059, AC007207, and AC004835.
HCWUW55	1603	964086	1-538	15-552	
HCWUW58	1604	694016	1-348	15-362	
HCWUW69	1605	882383	1-378	15-392	AC010436.
HCWUW76	1606	769808	1-535	15-549	
HCWUW84	1607	782840	1-349	15-363	
HCWUW90	1608	712303	1-365	15-379	
HCWUW95	1609	706528	1-369	15-383	
HCWUX02	1610	852993	1-541	15-555	AC005247.
HCWUX25	1611	614857	1-405	15-419	
HCWUX78	1612	773336	1-451	15-465	W86785, and R09187.
HCWUY16	1613	661550	1-527	15-541	AC007708, AC009288, AC008132, AP000550, AP000552, AC007664, AC007325, AC007981, AC008018, AC012330, and AC005815.
HCWUY19	1614	922920	1-1082	15-1096	AW189204, H64247, R89015, H73207, H62796, H62711, H73281, H95089, T99705, H77855, H77907, R84881, AA203271, and H64246.
HCWUY26	1615	681249	1-309	15-323	
HCWUY41	1616	711771	1-286	15-300	
HCWUY69	1617	615630	1-538	15-552	
HCWVA18	1618	849894	1-350	15-364	AI499795, and AW002986.
HCWVA25	1619	754314	1-187	15-201	N88601, N84855, N83168, N86694, AA095359, AA096046, AA096066, AA247827, N88782, N83992, N84712, N84048, N84718, N88518, AA095641, N55698, AA247964, N83991, N84830, N89520, AA471338, H58760, N84829, N87898, N87989, N56555, AJ243486, U48696, U39066, AF039698, AR066487, AF103726, AF102850, S78798, AF032922, and AF045432.
HCWVA44	1620	716347	1-122	15-136	
HCWVF94	1621	793533	1-659	15-673	H57015.
HCWVH59	1622	770274	1-438	15-452	
HCWVH65	1623	747324	1-175	15-189	
HCWVH67	1624	772342	1-328	15-342	AA251067.
HCWVH69	1625	861830	1-465	15-479	AC002536.

HDCAC05	1626	975255	1 - 457	15 - 471	AL134902, AI142131, AL134536, AL119401, U46351, AL119341, AL134527, AL134526, AL119418, U46349, AL043019, and AR054110.
HDCAD10	1627	963330	1 - 489	15 - 503	AW272294, AA225406, AI870453, AI635028, AI762528, AI133514, AA565319, AI923451, AI860751, AI923458, AI279417, AI587467, AA133332, AA160563, AI282629, AA877992, AW243793, AII92440, AA528503, AA528574, N64587, AC007371, AC006241, AC005081, AC004125, AC005696, AC005015, AC007363, AF001548, AL023575, AC005189, AL022323, Z99716, AL049760, AC006511, AC006441, Z95114, AL049569, AC005082, AC005011, AC002288, AC005874, AF134471, AB026898, AC002404, Z85986, AF196970, AC009516, AC002477, AC004905, Z99128, AC005529, AC006965, AC005921, AC007878, AL139054, AL022313, AL109984, AC007285, AL035071, AL034420, AC002314, AC004813, AL022320, AC005839, AL050307, AC006958, AC006312, AB023048, AC002352, AC007055, AC005280, AL021807, AC004882, AC005089, AL049872, AC004491, AC005484, AP000044, Z98941, AC004895, AC004531, AC006121, AL136295, AC007773, AP000697, Z83840, AP000098, AC005409, AC008009, AL035703, U62631, AC004782, AC000378, AP000209, AL049829, AC004686, AP000112, AC002425, AC005578, Z83844, AL022326, AL049832, AL049780, AC005231, AC004910, AC005527, Z97053, AL031311, AC007327, Z83847, AF067844, AC006480, AC004983, AP000696, AC004903, AC007938, AC005697, AL132777, U47924, AC004805, AL031657, AP000248, AF002223, AC004067, AC005943, Z93016, AL096773, AC004966, AL117337, AC005086, AC005237, AL031848, AC005516, AC005755, AC007182, AC005412, AC003695, AL035209, AC006946, AL021707, AC004655, AC008038, AF196971, AC005519, AL049643, AC007225, AL023284, AF001549, AC000026, AC006512, AF181896, U91322, AC002546, AC003108, AC005520, AL009181, AL049576, Z82244, AC004659, AC004797, AC003962, AC004099, AC004098, AF045555, Z81365, AC010200, AF205588, AP000694, AP000568, Z98946, U91326, AC004854, AC004033, AL034033, AC004821, AP000692, AL031670, AL049776, Z49208, AC000025, Z85987, AF030453, AC005255, AL122020, AE000658, AL031597, AC005537, AL022336, AP000086, AL133245, AP000313, AC004967, U91321, Z98304, AC007637, AC006597, AF047825, AC005971, AC002070, AL022401, AC004743, AC006064, AC005088, Z84469, AL021939, AC005207, AC007193, and AL096766.
HDCAG86	1628	852970	1 - 389	15 - 403	
HDCAP64	1629	922818	1 - 343	15 - 357	
HDCAV79	1630	881404	1 - 483	15 - 497	AL035541.
HDCAY54	1631	959750	1 - 430	15 - 444	
HDCBO38	1632	961931	1 - 214	15 - 228	
HDDMA83	1633	926991	1 - 759	15 - 773	AW371972, AA885936, and AF038963.
HDDNY79	1634	933804	1 - 443	15 - 457	AL049569.
HDDOC53	1635	934157	1 - 879	15 - 893	AF150417, AI888578, AI826769, AW327712, AW168059, AA628915, AI884992, AA761358,

AI707839, AI382085, AI359894, AA224907, AA234724, AA548422, AA234791, AA831987,
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R69361, AA961626, D20106, AA028112, AA028111, AI421970, AA455772, N39304, AI263331,
AI494201, AL043168, AW022102, AW044029, AI923989, AL040161, AI538885, AI440263,
AI345347, AI744923, AW088134, AL038778, AW084056, AL119457, W81248, AI312428,
AI307569, AL121270, AW148478, AI889168, AI366992, AI002285, AW268072, AW075084,
AI310925, AI334884, AL037030, AW131428, AA572758, AA493923, AI343091, AI349226,
AI345397, N49165, AL041150, AI468959, AI567582, AI886415, AA420722, AL079794, N29277,
AL119863, AI683860, AA983883, AI254226, AI348917, AI696626, AL119511, AW059828,
AW411310, AL046463, AI859464, AW089572, AW020710, AI349957, AI281867, AI554821,
AI267185, AI829327, AI800159, AW161579, AI345005, AI631216, AI251485, AI961589,
AI887775, AI590603, AL119399, AI539766, AI702301, AI868204, AL042382, AI612885,
AL047344, AI609911, AI436429, AI499986, AI915295, AI345745, AI349256, AI312152,
AL134259, AW269097, AI885989, AI587121, AI349933, AI312399, AI345608, AI349937,
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AI336513, AI312325, AW071395, AI340659, AW071377, AI345736, AI348895, AI307494,
AI336495, AI918554, AI340644, H89138, AA805751, AI340627, AI281782, AI334930, AI309443,
AI349622, AA600801, AW071380, AI307520, AI582871, AI498579, AI889147, AI340664,
AI310592, AI611728, AI282355, AL047042, AI348969, AI345739, AI345674, AW075207,
AL036664, AL040586, AI312143, AI345471, AI343037, AI349637, AI345735, AI868163,
AI310927, AI267532, AI559752, AI366974, AI307578, AI824375, AI345111, AW020693,
AL042544, AI349955, AI312210, AW075093, AW055252, AI312432, AI310930, AI345114,
AI312271, AI312357, AI307210, AI345224, AI336662, AI345156, AI345253, AI589267,
AI277008, AL036802, AI311159, AI648408, AI690536, AI289542, AL119836, AI955906,
AW151136, AI313320, AI310575, AW089689, AI570966, AI312237, AI679959, AI313352,
AI251221, AW022682, AL040694, AL036772, AL036718, AI307503, AL036396, AL138406,
AI311892, AA012905, AI950664, AI307736, AI340519, AI802372, AW089275, AI340603,
AI623736, AW020095, AI349814, AI285419, AI349266, AI334452, AI349787, AI307542,
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U77594, AF065135, Y11587, U68387, AF146568, AL080124, A08908, AL049430, L31396,
L31397, I89931, S61953, I49625, AF113694, AF094480, AL110225, U72620, AR068753, S77771,
AL117394, S76508, AL122123, I89934, Y16645, I33392, AF118090, AL137648, U78525,
AR038854, Y10655, AI8777, AL133093, AF089818, AL137529, AL110171, AF003737.

HDLAC80	1636	1 - 302	15 - 316	AL117585, E08631, U75932, AL137283, AF097996, AL049283, AF111851, M30514, AL050172, U58996, AF079763, AL117649, AF026124, AL096744, I66342, AJ005690, A08907, AF207750, AF118064, AF113699, AL137538, AL050116, AL122045, AL050092, AF085809, U00763, U88966, I48979, Y10080, L13297, I26207, AL137640, AL137459, AL050108, AJ006417, AL049464, AF118094, AL110196, AL133080, AL122050, AL049314, I17767, I17544, U68233, I92592, Y09972, AL133568, AF079765, AL137292, X98834, A15345, AF028823, I09499, AL137558, AL117440, A52563, AL133606, A08911, AL133560, AL049300, AF067728, AL080074, AL137560, AF069506, X72387, AF137367, AF119358, U42766, AF106862, A93016, I89944, AF078844, U95114, AF118092, AL133098, AL110221, U87620, AF090900, Y07905, AL050138, AL096751, AL117435, U91329, AL110280, AL110218, U49908, I00734, AL137463, AF111112, AL080060, AL137556, AF051325, AL117583, AF159148, I03321, AL117457, E00617, E00717, E00778, AL137656, U80742, AL137550, X65873, AL137548, AF162270, AL137276, AL050277, AL122049, X06146, AF118070, AL050278, AL080110, AJ238278, AL133557, X92070, E07108, AL133075, AF158248, AL133014, AL133113, AL080126, AL050393, E01614, E13364, AF036941, AF017437, AR034830, I96214, I09360, AJ000937, AL122111, AL049466, Z37987, AF000301, AF125948, AL080140, AF177401, D16301, U35846, AL110222, A03736, X62773, AL137479, AF081197, AF081195, X72889, AR011880, AC004200, AF026816, E01573, E02319, X81464, X82434, S78453, AF113689, AL137526, S36676, AR038969, AF153205, AL117460, AF017790, E01314, AF090903, A07647, AL137641, AL133565, AF061573, AL080163, X83508, M92439, AF061943, I68732, D83032, AL050170, AL137539, AB019565, L04849, AR068751, AR013797, AL133104, AF110329, AL133067, L19437, AL137557, X87582, and E02253.
HDLAD61	1637	1 - 388	15 - 402	AL035461.
HDLAH25	1638	1 - 323	15 - 337	D82449, AA079011, W15176, D82382, D82521, AF077040, and AF073344.
HDLAK03	1639	1 - 201	15 - 215	AA404215.
				AL047643, AI499503, F32724, AA715268, AA683031, AI744739, AA641103, N48131, AI923140, AI341664, AI061591, AI114660, AW157326, F36273, AI890928, AI890570, AA362700, AA847216, AI914706, AA364567, AA551509, AI307201, AW074398, F35113, AA515051, AA658235, AI613261, AI205126, AL041706, AW021857, AI553983, AA715362, AA669416, AI608626, AA484148, AA443065, AA578961, AA715270, AI445117, AI955323, F19258, AI624698, AI143242, AA354507, AI471572, AW193265, H64777, AI709365, W03190, AL079683, H04821, AI510838, AA514737, AI792287, AI310138, AA580662, AI149915, AW340922, AI432270, AI264743, AA328591, AA330772, AI051551, N43757, AA630352, F28576, AI937850, AI569086, AA973575, AI358343, AW341892, AA48137, AA318652, D58782, AW337985, AA450199, AA878495, AA458804, AI079910, AW130799, AI921649, AI445436, AI890052, AI963786, AA569306, AI880165, AI376100, AL079645, AA601270, AW265654, AI379719, AI110770, T06556, AW074059, AI356904, AI922654, AI564284, R44592,

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AA526755, N54179, AA344959, AA225201, AI732498, AI160117, AI859251, AI802526,
AA226364, AI708009, AI859742, AI471481, AA985038, N69962, AL138265, AI003172,
AI719014, F31204, AW188544, AW302117, AI904894, AF150152, AL036523, F35511,
AI349874, AW276827, AI334435, AA317973, AI446464, AA308806, AI565582, AI635818,
AI287964, AW439839, AL042771, AA515128, AL041368, AI679379, AI499094, AI888405,
R13151, AI287528, AA369477, AI679888, N41759, AI252085, W60516, AA557879, AI252114,
AP000155, AP000013, AC006050, AL133371, AC005053, Y18000, AC002056, AC004810,
AC004539, AC009178, AC005529, AC006538, AC004998, AL049697, AC004884, AC002116,
AC010170, AL110505, AC004806, AC007695, AP000555, AL078621, AC004755, AC003678,
AC003689, M13254, AC003104, AC004682, AL031720, AC004675, AC007402, AC005694,
AL035562, AC005527, AL033525, AC004492, L34162, AC007731, AC007537, AC005500,
AC003007, AC006023, AC009405, AC005632, AF088219, AC003038, AC004447, AP000745,
AP001172, AC006480, U55184, Z93783, AF139813, AC004057, AF123462, AC005899,
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AC006948, AC005785, AC006116, Z99774, AC007064, U62317, AC005358, AC005726,
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AL031432, AC005399, AC018769, AC018767, Z95889, AL031427, AC004988, AB029028,
AF180425, AC005725, AC008059, AL021977, AC007536, Z98752, U07563, AP000477,
AC002400, AL050318, AC004478, AL049778, AL050307, AP000552, AL031289, Z83838,
AC004477, AC020663, AL031283, AF001549, AL109758, Z95114, AC005229, AL031123,
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AC002426, AC005368, AL023578, AF111169, Z97183, AC007766, AP000306, AC005765,
AC005793, AP000047, AF176915, AC004964, Z93096, AP000115, AC002375, AP000692,
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AC007228, AL021978, AC006367, AL050326, Z75744, AC002519, AC004969, AL035420,
AJ239321, AC005152, AC005385, AC004099, AC006006, AC005482, AC009275, AF070718,
AC006064, AL034452, AL031662, AB020876, AC005969, AC016025, AC007225, AC006004,

HDLAN36	1640	923478	1 - 85	15 - 99	AC018633, AC005951, AC002553, AP000553, AL110502, and AL023879.
HDLAO27	1641	787084	1 - 422	15 - 436	AI581067.
HDLAQ50	1642	723854	1 - 307	15 - 321	
HDLAR24	1643	943930	1 - 305	15 - 319	AI220255.
HDLAV29	1644	922276	1 - 393	15 - 407	AF162761.
HDLBB03	1645	923286	1 - 327	15 - 341	
HDMAQ15	1646	941282	1 - 1134	15 - 1148	AI141684, AA242853, AI281834, N50984, AW014432, AA826047, AA977801, AA984041, T64272, AA994205, AA252172, AI361098, T64144, AI280735, AW084330, AA931748, AW071613, R09320, AA448980, AI990634, R09211, AW388104, AI147841, AII98101, AW238793, AI627898, AW074546, AW072130, AI276023, AI394689, AI457707, AI953242, AI539262, AA947158, AA150147, D44958, AA034918, and AC004126.
HDMBH76	1647	883212	1 - 1214	15 - 1228	AA584604, R17976, and AA297873.
HDMBK12	1648	968954	1 - 424	15 - 438	
HDPAA89	1649	693445	1 - 501	15 - 515	H51802, H67354, T67670, AA700794, AB029488, and AC002536.
HDPAB03	1650	924124	1 - 356	15 - 370	AL078600.
HDPAD22	1651	674560	1 - 470	15 - 484	AI492865, AA836291, and Z59212.
HDPAE86	1652	709072	1 - 505	15 - 519	H49713, and T87022.
HDPAF70	1653	881626	1 - 452	15 - 466	
HDPAG03	1654	771636	1 - 216	15 - 230	AC005946, and AC006272.
HDPAG32	1655	947832	1 - 627	15 - 641	
HDPAH10	1656	969041	1 - 516	15 - 530	T97458, AA704961, AA704993, T97730, R09226, AI097092, AI264637, AW440517, T97914, AA203274, AA045417, AA127626, AA308065, T96809, F22528, AA304050, AA082078, AI087224, W39584, AI042559, N32838, AI289816, AI333981, AA513003, AA121528, AA716353, AA302332, AI805206, AA677140, W44935, AI208270, AA112905, AI024761, AI087291, AA448463, AA101212, AI685445, AI094396, AA932240, AA331180, AA062780, N42284, AA045311, and AA973273.
HDPAQ24	1657	677179	1 - 425	15 - 439	AF223944, AF110330, and Z61018.
HDPAS40	1658	860041	1 - 567	15 - 581	AC003004.
HDPAV74	1659	916457	1 - 396	15 - 410	
HDPAZ46	1660	719024	1 - 434	15 - 448	
HDPAZ73	1661	756742	1 - 496	15 - 510	AI734217, AI830204, AI764987, W20302, AA328526, AI344107, AI668657, R54083, AA334776, AA151813, AI921148, AA815201, AA386170, AAI22312, AI361541, AI284342, AA071290, AI284343, R60683, AA399256, T36239, N23786, T6S297, AA779556, AA425224, AA350782, AW004629, AA888883, F02683, F10790, F03793, R41712, H29594, N46213, R39944, R40964, R48971, R44252, R44573, R50366, AF182814, and AJ243721.

HDPBC24	1662	1 - 340	760623	15 - 354	AI401449, AA075859, D26362, AC000391, and AC002323.
HDPBD79	1663	1 - 159	973367	15 - 173	AJ003449, AI970509, H23104, N45556, AL040461, AI216366, AA927218, AA912892,
HDPBJ94	1664	1 - 810	945460	15 - 824	AL078614, AL137712, and AL109748.
HDPBM64	1665	1 - 397	773091	15 - 411	AA296462, AA223692, AB023188, Z54728, and Z54729.
HDPBO71	1666	1 - 301	888109	15 - 315	
HDPBS54	1667	1 - 2050	904762	15 - 2064	AI721185, AI066646, AA700943, AW023111, AW070532, AI249997, AI471476, AI362442, AI357628, AI955029, AI305547, AA663074, AI755202, AW089016, AAS02207, AL022207, AL039042, AL039041, AA721722, AI061313, AW028950, AL042373, AA837035, AA602906, AA569402, AI821044, AC005015, AC009501, AC005228, AC004878, AL096701, AC007193, AL049540, AC004813, AC002997, AL021937, AC005914, AC004897, AC005562, AC002381, AL117258, AC005088, AC005747, AC004832, AC006285, AC002544, U80017, AC007308, AC005599, AC034548, AF200465, AC007199, Z86090, AC007546, AC005921, AL021393, AC008033, AL133246, AC006312, AC002316, M63796, AC007226, AF111169, AC006597, AF196779, AC004883, AC004125, AL049843, AL121652, Z93023, AL035249, AL078581, AJ010770, AC004912, AC007227, AC004999, AL049779, AF196969, AL096774, AC005082, AC005031, AL035587, AP000304, AL035413, AC004554, AC004806, AC004686, AF196971, AC002115, AC004796, AC005873, AC007052, AC006948, AF124523, AL121653, AP001054, AC004638, AC006241, AC005102, AC004587, AL022097, AC005786, AP000509, AC005081, AC006430, AC007540, U07000, AF107258, AL133448, AC004223, AC010205, AC006211, AC003109, AL049697, AL121595, AC005412, AL049757, AL117328, AC005844, AC008101, AC005722, U95742, U63721, Z99496, Z83840, AC000134, AC000392, U62292, AC005696, AF053356, AC003684, AP000047, AL022318, AL049712, AC004953, AC005409, AC007011, AL049766, AB023051, AL080243, AC005280, AB023049, AC004953, AF001548, AC004881, AC005500, AC004216, AC004520, AL024507, AC002400, AL022311, AL109801, AC004973, AC005776, AL133353, AP001053, AL022329, AC006509, AC005209, AC004973, AC004991, AC007731, AC004989, AC007999, AC004263, AC016830, AF121781, AC004383, AC008055, AC005695, U96629, AP000513, AC002091, AC000092, AC004910, AF111168, AL022313, AL049795, AC005920, AC007298, AC002073, AL049650, AL031659, Z98884, AP000115, AC000353, AC003663, AC005089, AL031282, AC004671, AC004025, AL049569, AC006530, AC007041, AC007934, AC007637, AL049869, AF109907, AC005519, and AC004551.
HDPBW10	1668	1 - 460	964553	15 - 474	AL045848, AAS82554, AI832000, AI292085, AI264046, AI251024, AI446205, AW270768, AW008074, AW149975, AI291037, AW302709, AW277174, AW236235, AA219651, AI078409, AI803915, U91326, AC002544, Z93942, Z83826, AP000105, AP000037, AC008063, AC009399, Z93931, AL031286, AJ229042, AL133243, AD000092, AC003962, Z83843, AC004386, AL031728, AC005239, AL021154, AP000150, AC006123, AF107885, AP000009, AC004202, AC002310, AC007565, AL022316, AC007684, AC007676, AF047825, AL020997, AL049776,

HDPBW26	1669	1 - 240	15 - 254	AC006241, AL132712, AC003025, AF139813, AC004770, AC004228, D86991, AC005304, AC002045, AF010238, AL049712, AC002418, AC010170, AC005324, AP000518, AC007528, AC004477, AP000008, AC004024, AC006515, AC000052, AC007129, AL078581, AC002553, AC008372, AP000704, AC006487, Z82900, AL022314, AB023054, AC004019, AL121748, AP000694, AC005620, AC002996, AC003035, AC004859, AF020515, Z83732, AC004011, AL031846, AC005207, AB001523, Z98752, AC004148, and AP000065.
HDPBX82	1670	1 - 533	15 - 547	AC007172, and X84692.
HDPBY23	1671	1 - 505	15 - 519	AI478349, AI624865, and AC005336.
HDPCC48	1672	1 - 423	15 - 437	AA004919, C16939, AW301353, and T06985.
HDPCH65	1673	1 - 493	15 - 507	AA284452, and AL135744.
HDPCK27	1674	1 - 450	15 - 464	
HDPCK66	1675	1 - 432	15 - 446	
HDPCM35	1676	1 - 455	15 - 469	AL096805.
HDPCN22	1677	1 - 610	15 - 624	H81040.
HDPCN94	1678	1 - 753	15 - 767	AL122086, AF120323, AB022915, AF120324, and AF121102.
HDPCR34	1679	1 - 327	15 - 341	
HDPCS43	1680	1 - 299	15 - 313	
HDPCV60	1681	1 - 846	15 - 860	AI762468, AA039789, AA039790, AI040678, AW044237, R69130, W80467, R69248, N69997, R66283, R79969, R80067, R66282, R08901, and W80576.
HDPCW90	1682	1 - 427	15 - 441	T86522, R05896, and R01279.
HDPCY03	1683	1 - 455	15 - 469	
HDPCY43	1684	1 - 468	15 - 482	AF118808.
HDPCY93	1685	1 - 431	15 - 445	N44631.
HDPDI78	1686	1 - 362	15 - 376	AB014599.
HDPDJ24	1687	1 - 376	15 - 390	AF150205, R94203, and AF161539.
HDPDJ90	1688	1 - 442	15 - 456	AI940403, AC005363, and AC005606.
HDPDL62	1689	1 - 647	15 - 661	AA573618, and U81831.
HDPDL79	1690	1 - 570	15 - 584	AW177005.
HDPDN08	1691	1 - 927	15 - 941	AA216672, AA078092, AA829049, and AC007444.
HDPDO46	1692	1 - 449	15 - 463	AA808002, AA467766, AC007276, AL031650, AL096861, Z84480, AC002525, AL031575, AP000569, and AL035073.
HDPFC15	1693	1 - 195	15 - 209	
HDPFF07	1694	1 - 798	15 - 812	AB033030, and AF151363.
HDPFJ21	1695	1 - 376	15 - 390	AL034555.
HDPFQ93	1696	1 - 373	15 - 387	AL049766.

HDPFVSS	1697	575202	1-544	15-558	AA833892, R84376, and AA382114.
HDPFW80	1698	734937	1-495	15-509	
HDPFY90	1699	788870	1-353	15-367	
HDPFZ58	1700	735975	1-515	15-529	AW404640, AF150417, AL023653, and AL049683.
HDPGB73	1701	574603	1-355	15-369	AL134996, AB018413, and AB011143.
HDPGG28	1702	625678	1-446	15-460	
HDPGH27	1703	937144	1-315	15-329	AA362688, AA362690, AA362689, T29199, AL044652, I07209, I07249, AR068508, AR068510, AR067734, AR067731, AR068509, A63954, I09267, I09270, I91969, I09268, I09269, A49701, I09252, I09251, AR067732, A29109, A32111, I66495, AR068550, A23373, AR068551, I66494, E01324, I08638, A94048, A94061, AR035224, A94046, A94054, A94045, I58322, I58323, I66498, I66497, I66496, I66486, I66487, A27169, A27170, A39929, A83151, AR038307, AR038321, AR051528, AR051537, AR051547, AR051524, and A42964.
HDPGI14	1704	415961	1-432	15-446	AI018392, AA576672, H84975, AI929768, AW157282, AA599045, H77773, AA847622, AA828053, AA826320, AA598731, AC003982, Z84466, AC005102, AC002350, AF126483, AC004752, AL022238, Z98257, AC005105, AL135783, Z98742, Z86064, AP000289, AP000042, AP000110, AC007537, AC005581, AC004685, AC005015, AB020868, AC006581, AL080243, AC004000, AC004797, Z82976, AC005971, AC006026, AC005280, AC005736, U47924, AC001234, AC004526, U93305, AL031905, Z83822, AL049874, AL023575, AF060568, AL022717, Z84487, AC006241, AC006011, AC007671, Z99916, AL031673, AP000350, AC005886, AF001549, AL049631, AC005031, U80017, AC007193, AC002477, AC005932, AC002470, AF198095, and AF091512.
HDPGI21	1705	760926	1-340	15-354	
HDPGI95	1706	919792	1-443	15-457	
HDPGL65	1707	666830	1-515	15-529	
HDPGM85	1708	783563	1-451	15-465	
HDPGO30	1709	780359	1-408	15-422	AA287508, W15561, and N80792.
HDPGO52	1710	852800	1-422	15-436	
HDPGP54	1711	464312	1-669	15-683	AL031123.
HDPGP75	1712	872249	1-409	15-423	AP000172, AP000057, AP000125, and AP000330.
HDPGT43	1713	495783	1-547	15-561	AI700109, AA468022, W60328, AC002470, AC005529, AC005940, U47924, AC005071, AC004638, AL022238, AC005666, AC009516, AF055066, AC009516, AF053356, AL096791, AC007308, AC005057, AL008715, AC004263, AC004814, AC007919, AC005387, AC005690, AC005057, AC005527, AC000353, AF045555, U95740, AC005695, AF207550, AL022724, AC004156, AC005829, AC000353, AC004921, AC009044, AL031295, AC005914, AF165926, AC007066, AC002378, AL031587, AC012627, and AC005694.
HDPGU50	1714	720595	1-330	15-344	

HDPGX44	1715	1 - 454	15 - 468	
HDPHB75	1716	1 - 127	15 - 141	
HDPHF59	1717	1 - 211	15 - 225	
HDPHG23	1718	1 - 312	15 - 326	AW408550, AW408705, AW407627, C18204, AW401857, AL031733, and AL137762.
HDPHG42	1719	1 - 602	15 - 616	AC005005.
HDPHG89	1720	1 - 588	15 - 602	
HDPHH51	1721	1 - 471	15 - 485	AA447601, AI769676, AI052170, AI383501, AA416632, T99484, AW237237, AA652361, AA652166, AI202729, AA115105, AA356475, AA828854, and AC005156.
HDPHI02	1722	1 - 448	15 - 462	
HDPHI71	1723	1 - 391	15 - 405	
HDPHJ36	1724	1 - 301	15 - 315	
HDPHK96	1725	1 - 815	15 - 829	AA654874, AI380617, AA780933, AW243945, AI355080, AI148557, AA564582, AI718462, AA445908, H73550, AA678616, AI683116, H67649, H48768, AA405549, AA297789, AA086257, AA936718, AA078754, AA599532, AL041682, AI924207, AL042230, AI912401, AI816058, AI732911, AA320105, W04168, AL041681, F35551, AW051819, AI858889, AI053784, AI569401, AA584207, AA878407, AA904211, AI270647, AI061168, AA128969, H97379, AA669054, F31867, AA070330, AA558404, AA493947, AA302982, AI955360, AA471013, AA550757, AA345594, AA715955, AJ053688, AI671077, AA425924, AI678992, AI792521, F32040, AW078821, AA572753, R99613, AW390284, AI347665, W81372, H68191, F25666, AA644223, AA460910, AI697425, AA581498, AA586433, F35674, AI472736, AI819262, N40092, H67064, AA019973, AA745552, AW440568, AA635413, AA013168, AII98718, AA460920, AI557422, AA678932, AI818545, AI753887, AA344768, AW081610, AA721523, AA461212, N86362, AI866580, N67313, AI701059, AAS13884, AL134440, AI570237, AI620354, AA461223, AI889995, F35684, AA058312, AA420723, T17384, AA804334, AI133514, AA126814, AL040521, AI370841, AA831913, AW419389, AI114557, AW275432, AA640310, AAS15351, R93919, AL118912, AA652830, AI889579, N58505, AA487300, AW079737, AA601237, AA102737, AA249239, AL044177, AJ002709, AA626595, AL121287, AI813783, AA568314, AA355128, AW019964, AL045423, AAS04951, AA804297, AW023111, AAS83132, T17332, AAS51056, AA609826, AC004637, AL031984, AL022330, Z94160, AL133500, AC004032, AC002563, AL031775, AC010582, AL033380, AC006948, AC006276, AC004125, AC008119, AL031432, AC006023, AL031279, AE000662, AC006120, AC004111, Z83846, AL035682, Z98742, AL078638, AC002070, AL133244, AC004943, AL021939, AP000327, AC003108, AC006511, AC008149, AC007684, AC006241, AL021546, AC002303, AP000055, D84401, AL133826, AL035588, AL031228, AL049911, AL022576, AL121578, Z70289, AR036572, U91328, U93305, AL049832, AC004601, Z97053, U52111, AC005220, AC002375, AL022721, AC004593, AC003683, Z95115, Z98048, AF196779, AC004820, AC007221, Z92542, AC005969, AC004465, AL050317, AC005495, X51956, AL117694, AC006512, AP000075,

HDPIA15	1726	772020	1 - 588	15 - 602	AC006390, AL022238, AC005215, AC007263, AL049749, Z84480, AC005684, AC002115, Z81008, AC002350, AC005355, AC006361, AL031728, AC006125, AC005487, AC007388, AL031311, Z94055, U47924, AP000496, AC005209, AL020998, AL109758, AC003684, AP000114, AP000046, AC010200, AC003965, AC005379, AL079333, AF196969, AC005225, AC005219, AC005726, Z85996, AC005187, AF015416, AC008989, AC004049, AL035703, AC007151, AC005288, AC005625, AC005568, AC003013, AL049576, AL049869, AC004762, AL031427, AC007663, AC010206, AC005553, AC007225, AF128893, AL109750, AP000049, AP000311, AC007387, AC006057, AL022332, Z69652, AJ012008, AC005061, AC007934, AC003665, AL132796, L31948, D87022, AC004663, AC006600, AL031055, AC004854, AL121588, AL022726, Z69922, AC005514, U63312, AL022395, AC002112, AL132800, AL031121, AL009172, AL117258, AC007279, Z82176, AC004963, AC006205, AC006039, AF047825, Z75407, AL049692, AL049570, AC002073, Z83851, AC007358, U44106, AC007617, AC002045, AC005546, AP000504, AC004997, AC002481, AL035462, AC007649, AC004651, AC002314, AC015853, AL031587, Z93242, AC005324, AC004832, AL022069, AC010205, AC007540, X15943, X68793, AF199339, AL023879, AL023883, AC006536, AP000701, AL031258, AP000115, AC005081, AC000003, AL031289, AC005585, AC005939, AL022313, AC004923, AC002455, AC005094, AL135746, AL009181, I34294, AC005391, AF030453, Z84487, AP000304, AC007023, L43411, AL035416, Z82244, AF111169, Z93023, AF024534, AC003010, U73169, AL031665, U93036, AC002385, AJ011931, AC005284, AC004019, AC005082, AC006480, AC004760, AC004262, AJ239318, Z84474, AC005839, AL031664, AC004821, and Z70288.
HDPIC37	1727	954869	1 - 680	15 - 694	AI635582, and AL049766.
HDPID10	1728	928163	1 - 547	15 - 561	AI470828, AA888031, AL120421, AA229902, AA281976, AA204701, AA424801, AA410294, AA435831, AA397595, and AB002334.
HDPID37	1729	868169	1 - 554	15 - 568	H78846, R97122, AA331528, T85509, AW362954, AI193875, AW362978, AI193991, AA699647, AW362953, AI033788, AW363023, and AC005412.
HDPIE42	1730	713081	1 - 389	15 - 403	
HDPIF86	1731	591540	1 - 488	15 - 502	AL120078, N28989, AA206257, AW378916, AL117258, and AC002394.
HDPIH48	1732	677664	1 - 511	15 - 525	AL022316.
HDPIP26	1733	681519	1 - 515	15 - 529	T84946, AL047527, AL047528, and AC002394.
HDPIQ55	1734	961163	1 - 458	15 - 472	T81944, T79115, and H63342.
HDPIQ65	1735	747791	1 - 426	15 - 440	AI732675, AA469134, and AA420876.
HDPIT53	1736	926498	1 - 371	15 - 385	
HDPIT61	1737	741724	1 - 408	15 - 422	AC004126.

Clone	No.	Range 1	Range 2	Accessions
HDPJA04	1738	628745	1 - 318	15 - 332	AW245495, AL046917, AW402628, H91107, AR012155, AB018357, and AB026628.
HDPIA26	1739	767110	1 - 455	15 - 469	AW161353, AW161055, AF150432, AL136504, AF189723, AF189723, AF181121, AF181120, and M93017.
HDPJB08	1740	921453	1 - 403	15 - 417	.
HDPJI05	1741	911170	1 - 2858	15 - 2872	AA905416.
HDPJK06	1742	852781	1 - 438	15 - 452	AI928173, and Z95115.
HDPJK73	1743	765446	1 - 403	15 - 417	
HDPJN68	1744	752907	1 - 314	15 - 328	T34282, T18874, AA983199, AI491817, AA579179, AA630672, AA010299, AI818231, F05641, AA425118, R12156, H15474, AI207363, AAS13893, AL041373, AL041526, AL041527, F13380, AA410788, AA584170, AW022608, AI733856, AI056177, AAS06744, AC005411, AC002431, AC009516, AC006552, AC006390, AL031432, AC004983, AL031283, AC005046, AC005953, AP000348, AB000931, AL035420, AL049830, AC006501, AC005756, AL031279, AB009667, Z83845, AL022237, AC004841, AC006312, AC005800, AC004812, AC002550, AC006313, Z69706, AC004534, AL078638, AL117694, AL022316, AC005071, AC002549, AC002070, AC006012, AC005305, AC012384, Z83856, AC003029, AL031466, AC007842, AF088219, AC012627, AC004675, Z84469, AC005759, AC006117, AC006480, AC002996, Z84483, AL031680, AC005837, AL133396, AL122020, AC005412, AC006120, AC005703, AC008975, AC004985, AC003080, AC006501, AL137191, AB023049, AL031591, AC006371, AL023913, AC002525, AF114156, AC005520, AP000281, AC004552, and AC007435.
HDPJO40	1745	711003	1 - 359	15 - 373	AA578690, and T05118.
HDPJP32	1746	918630	1 - 476	15 - 490	AF104015.
HDPJP79	1747	538038	1 - 465	15 - 479	AI110883, and AC002476.
HDPJR11	1748	965011	1 - 329	15 - 343	AW204366, AA865368, AA442937, AA436769, and AW197446.
HDPJU86	1749	785391	1 - 743	15 - 757	AI703393, AI656220, AI457528, AI214558, W15512, AA888880, W39617, AA995374, N56658, AI202894, N47548, AI916559, H06953, R54815, R45929, R45928, T27096, AI203071, AA782845, Z41377, F04514, N30325, and N47547.
HDPKD52	1750	959653	1 - 1159	15 - 1173	T20100, and AC003070.
HDPKD82	1751	778970	1 - 374	15 - 388	
HDPKJ40	1752	710991	1 - 355	15 - 369	
HDPKK25	1753	677921	1 - 551	15 - 565	AL031668.
HDPLB25	1754	965139	1 - 430	15 - 444	H47933, N99775, AW391235, and R58738.
HDPLC45	1755	909091	1 - 816	15 - 830	AI445866, AI816830, AA639828, R41845, AA258158, Z41214, H06057, F02752, T11904, and AL050333.
HDPLC60	1756	740144	1 - 382	15 - 396	
HDPLD11	1757	966610	1 - 430	15 - 444	AL120898.
HDPLD29	1758	690409	1 - 431	15 - 445	
HDPLD57	1759	734528	1 - 412	15 - 426	

HDPLD89	1760	786704	1 - 421	15 - 435	
HDPLE38	1761	706639	1 - 345	15 - 359	R58132.
HDPLE63	1762	703477	1 - 433	15 - 447	AA642326, AI267274, AI183572, and AB020719.
HDPLE75	1763	852685	1 - 447	15 - 461	
HDPLE88	1764	625293	1 - 323	15 - 337	
HDPLE96	1765	915966	1 - 437	15 - 451	
HDPLF86	1766	785316	1 - 619	15 - 633	AA181731, AI343501, AL137607, AF109219, AB030280, AB030279, AB030316, and AB030312.
HDPLG10	1767	964213	1 - 402	15 - 416	H45885.
HDPLJ28	1768	840111	1 - 145	15 - 159	AW085622, AW135279, AA779541, AI627872, N51608, AA382892, AI272986, AA416724, AL045453, AI440260, AW082088, AI249877, AI589428, AL037602, AL046466, AW029611, AW104141, AI921379, AW089351, AI280751, AI285432, AI873923, AI590043, AW075522, AI680066, AL037582, AI347701, AW129106, AW172981, AW079119, AI956086, AI797908, AI698391, AI273901, AI537244, AI500504, AW074763, AI866503, AI673363, AI673278, AW051088, AW193231, AI432644, AW020397, AW074172, AI345415, AI889189, AI472566, AI633125, AI538564, AIS15232, AI915291, AI491710, AW152182, AA928539, AI521799, AI884318, F27788, AW006032, AW130134, AIS59524, AW087455, AW080746, AI345688, AI582912, AW163554, AI522052, AI697207, AA019328, AI859991, AI610690, AI249257, AI951868, AI963625, AI241744, AA862606, AI579901, AW105383, AI499890, AI866801, AI432030, AW104827, AI096481, AI580694, AW083374, AI500714, AI690748, AI670009, AI376872, AI679796, AA279795, AAS80663, AIS59555, AI890533, AI633062, AW148408, AI818683, AW104724, AI612852, AI922707, AI573032, AI962858, AW167083, AIS83065, AIS37024, AI648567, AIS70909, AI435268, AI378080, AIS38885, AI269862, AIS38716, AW104062, AI636309, AI679672, AIS80435, AW150225, AI631095, AIS38850, AI362248, AIS80451, AI312542, AW191844, AI684305, AW303089, AW131139, AA641818, AIS59619, AI921464, AI267185, AW170673, H89138, AIS23964, AW265004, AI961393, AA693331, AI624084, AI611743, AI912356, AW081322, AI621341, AL041105, AI452560, AL047344, AI687295, AI799313, AI366900, AIS40674, AI473536, AA761557, AI866469, AIS64723, AL048656, AI446124, AW151847, AI803778, AI016107, AIS67883, W74529, AI690312, AI688858, AI677777, AW075669, AI702073, AI800473, AI371251, AW130681, AI263312, AA420722, AIS36685, AI798456, AI678446, AW075305, AW192461, AI433157, AI952493, AI811840, AI002285, AI433994, AI866465, AIS40458, AI799674, AI811644, AIS64719, AW082607, AI254731, AI685005, AI469532, AI918809, AI887569, W48671, AIS70807, AIS52274, AW083778, AI345612, AIS57599, AI862139, AW193038, AW081653, AI921176, AI683173, AI345416, AW129722, AIS64500, AI679800, AIS81033, AI291601, AI433600, AI909697, AI802542, AL048312, AL134712, AI619502, AI609580, AI627988, AI628015, AW021717, AIS67846, AI682971, AL119828, AA744557, AI591387, AW128841, AI587606, AI241923, AA768478, AW169784, AIS00061, AI933992, AW085786, AI280637, AW078895,

HDPLK49	1769	835603	1 - 275	15 - 289	AI469505, AW021373, AI863241, AI590021, AIS37261, AJ677797, N98597, AI623682, AI312210, AI582932, AI924713, AI567993, AL137429, U35846, AL122100, AL137533, AF177401, I48978, AL022147, X72889, AL050277, AF125575, AL133049, X53587, AC003032, AL137521, X53777, A65341, I48979, AL137529, AL137463, AL133557, AF061981, Z97214, L04849, AF102578, AJ005690, AL133112, AL078630, AL050149, AC006112, Y18680, AL080159, AL137488, AL049452, A49139, X93495, A93914, A08910, I28326, AC006288, AF087943, A08909, I08319, A08913, AR038854, AI8777, A77033, A77035, A08908, AF130342, AL133113, A08912, AB016226, AL137478, X65873, I00734, A76335, AF141289, Z82022, E00617, E00717, E00778, AL133010, AF032666, AL122110, AF090943, AL122098, AF026124, Z82206, A08907, S78214, AL035067, AL133637, AF111851, AL137547, S68736, AL133031, AL080110, I89947, AL080074, AL031346, I89931, AL080124, AF113694, Y10936, AL137523, AL050172, E12806, AL137459, I89944, I89934, I32738, AF137367, I49625, X79812, Y11254, AF079763, AF153205, AL050116, A08911, AF139986, AL110269, A18788, AR068753, A21103, S76508, S36676, X80340, AC004686, AF183393, AL137574, AC006197, AL137275, AL137480, AR039969, L24896, AP000083, AL049283, AL122050, AL110221, AL117457, AL133568, AL122118, AF180525, AF106657, X83508, U95114, AL137550, A08916, AL035407, S77771, AF113019, AF076633, AF106697, AF104032, U72620, A58524, A58523, L04859, AF162270, A15345, AF026816, X82434, AF090934, AF067728, AL137560, D89079, AL117416, X92070, M96857, AL080156, U80742, Y07905, AF038440, AL110218, A17115, A18079, E15569, AL137539, U54559, L19437, AL117460, Z37987, S69510, AL110225, AL080148, AL137641, L04504, S71381, AL137276, S61953, AF078844, AF161699, AF082526, AF131773, U58996, AF031147, AF017790, AF047716, AF061795, Y14314, AF151685, AL096744, AL050108, U49434, A52563, AB029065, AF000145, U88966, E08516, AL137537, AL137627, AR020905, AL137556, AF031903, S78453, Y16645, A86558, A65340, AF118070, A83556, L30117, and M85164.
HDPLN06	1770	935010	1 - 422	15 - 436	AJ239321, and AP000542.
HDPLN76	1771	921700	1 - 391	15 - 405	AA481295, AA213873, and AF001549.
HDPLOS0	1772	724098	1 - 714	15 - 728	AA355040.
HDPLT29	1773	958196	1 - 204	15 - 218	
HDPLV74	1774	765334	1 - 467	15 - 481	AL034375.
HDPMA48	1775	582015	1 - 829	15 - 843	AI760818, and AI769951.
HDPMC49	1776	852767	1 - 1468	15 - 1482	
HDPMF53	1777	733466	1 - 384	15 - 398	R60108, AI914747, W89152, AI371165, AW102980, H71659, U07562, AC002073, AL049576, Z95115, AC005832, AL009174, AC002551, AF110324, Z99291, AC002365, AL035659, AC002132, AC005015, AC004779, AC007151, AC004672, AL035405, AC007207, AL031713, AC004953, AC007011, AF111168, AL008726, AC002994, AF064860, AC006064, AC006430,

HDPMH83	1778	661316	1 - 567	15 - 581	AC004472, AL031276, M31951, and AC000394.
HDPMJ93	1779	852763	1 - 571	15 - 585	AB001535, AP001064, and AP001063.
HDPMO62	1780	912722	1 - 570	15 - 584	
HDPMP25	1781	678068	1 - 588	15 - 602	
HDPMQ34	1782	956248	1 - 417	15 - 431	AA678970, AA515440, AI110760, AA680243, AA679936, AI633479, AI732120, AC005919, AC004382, AC008072, AF196969, L44140, AC005722, AC006285, AC005881, AC002470, AF109907, AC004655, AC002077, U63721, U95739, AC005244, AP000114, AP000046, U62293, AC004531, AC009516, AL022324, AC005037, AC007386, AC005057, AB022785, AC008989, U62292, AC004854, AC005225, AC005740, AC004526, AC004253, AC005776, U78027, AL031283, AC006576, AC004876, AL021155, AL049776, AC005695, AL021407, AC020663, AL022312, Z98200, AL035422, AL139054, AP000065, AC002310, Z93023, AC004815, Z98051, AC005180, AL049760, AP000553, AL022336, AC007387, AC005920, AC005280, AC000353, U52111, AF134726, AC005215, AC000159, AF165926, AL033527, AL049692, AL135744, AL031311, AC004477, AC005015, AC004448, AC006026, AC007637, AC002404, AC006088, AC007225, AC005565, AC006539, AC007919, AC005846, AF047825, AC004858, AC000134, AL031985, AL132987, AC005821, AC005839, AL008582, AC004067, AC004651, AC005899, AC007388, AC005562, AC007773, AC006571, AC016025, AC004851, AC004383, AL133243, AL133245, AL035683, AF053356, AL031680, Z86061, AC004895, AL024507, AC009044, AP000555, AL035458, AC005837, AL022163, AC005071, Z93020, AL008635, AC005480, AC005552, AF152363, AC005484, AC002059, AL023553, AC005399, AC004223, AF205588, Z84487, Z98743, AC004821, AF207550, AC002115, U95742, AL031432, AC004813, AC007845, AC005682, AL096791, Z95329, AC005479, AC006251, AP000350, AL009181, AC006388, AC008372, AC002418, AL049871, AC007216, AC005500, AC006254, AL049829, AL132777, AC002565, AP000302, AC003957, AC006115, AC005189, AP000493, Z94056, AC003695, AC006120, AL022721, AL023653, AC007536, AP000503, AL049780, Z83840, AC007055, AC005907, AC005859, AC000026, AC005755, AC012627, AC005609, AL031666, AC004882, AL049636, Z95115, AC004525, AC004601, AC002492, AF196970, AC007686, and AC005632.
HDPMS42	1783	713759	1 - 460	15 - 474	H84948, R88291, AW014470, AI810506, R85497, C15173, AA704157, AA286825, D81736, and N93232.
HDPMV53	1784	697470	1 - 535	15 - 549	F09050, AA243386, C14449, AB007944, AF109076, AP000310, AC002301, AP000116, and I77096.
HDPMW22	1785	665153	1 - 452	15 - 466	AA447328.
HDPMZ01	1786	916447	1 - 635	15 - 649	AA418623, AA418556, AA253164, H11871, and F05796.
IHDPNA03	1787	924082	1 - 97	15 - 111	AC005913.
IHDPNC96	1788	934520	1 - 720	15 - 734	AA256100, and AB023182.

HDPND35	1789	973108	1-453	15-467	.
HDPNE60	1790	974827	1-977	15-991	AL138082, AW246260, AW247807, AW246149, AI878829, AW403641, R07062, AA687496, AW403272, AA687440, AA852531, AI659057, AI079775, AW005562, AF197060, AB009346, AB038365, AB038364, and US8884.
HDPNI03	1791	924081	1-512	15-526	AA883801, AI298498, N85346, and AA249868.
HDPNJ14	1792	767447	1-308	15-322	
HDPOC44	1793	707241	1-660	15-674	AA360824.
HDPOD96	1794	939770	1-264	15-278	
HDPOF25	1795	852745	1-484	15-498	AC003109, Z97055, and AC005630.
HDPOI52	1796	927699	1-884	15-898	AI493647.
HDPOJ93	1797	792193	1-378	15-392	
HDPOK47	1798	973097	1-388	15-402	
HDPOL60	1799	767953	1-170	15-184	AI205285, AI264338, R48389, T57897, AA191491, R61591, AI365411, AA779717, AA227325, and AF056312.
HDPOL66	1800	681391	1-424	15-438	AA909852, AI718702, AA830158, AA281962, AA283111, AA579393, AA814111, AA480552, AA477445, AI791799, AA807056, AA469312, AA653189, AW451366, AA814853, AI598013, Z84489, Z84814, Z84477, and AF060863.
HDPOX65	1801	674963	1-283	15-297	AF001548.
HDPOY33	1802	702285	1-208	15-222	
HDPOZ51	1803	926977	1-417	15-431	AI014353, AA592982, and R17976.
HDPPA66	1804	870840	1-518	15-532	T99407, and T97870.
HDPPC83	1805	683656	1-403	15-417	
HDPPD59	1806	708334	1-223	15-237	
HDPPG35	1807	579315	1-538	15-552	AI767219.
HDPPG86	1808	923846	1-328	15-342	
HDPPK33	1809	666510	1-557	15-571	AA528168, AA417878, N75120, AA688401, AI689902, N59545, N59559, N78301, AA426418, AL037450, AW016155, and AA610394.
HDPPL30	1810	692095	1-581	15-595	AI453210, AA578690, AI950963, T05118, AI537407, AF036405, AC004408, AC007686, AC005666, AP000065, AC004985, AC005800, AP000347, AL049836, Z99716, AC005412, AF202321, AJ229041, AL035458, AF107045, AC006006, AC000025, AL110502, AL050341, AC004491, AC005527, AC004686, AL035587, AC009247, AL031668, Z97876, AC007390, AF196969, AC008394, Z82188, Z95114, AC005789, AL078639, AC005529, AF111167, AL031295, AC010205, AL096791, AC004382, AC002300, AL132987, AC005907, AC005409, AC007731, AC006455, and AC005500.
HDPPM09	1811	625281	1-516	15-530	AF041248, AF041249, and AF058759.
HDPPN33	1812	958993	1-136	15-150	

HDPPN59	1813	909867	1 - 711	15 - 725	AA781406, AA304143, and AI079221.
HDPPO88	1814	963382	1 - 629	15 - 643	
HDPPP24	1815	812091	1 - 543	15 - 557	AA082133.
HDPPQ39	1816	712993	1 - 463	15 - 477	AI951092, AP000555, Z98304, AL024474, AL035464, and AC004655.
HDPPU30	1817	671973	1 - 327	15 - 341	AL022238.
HDPPU44	1818	951276	1 - 437	15 - 451	AI741964, AA361063, and AR035946.
HDPPW36	1819	785239	1 - 392	15 - 406	N25176, AB013139, AC004612, AF069291, and AF049895.
HDPPX43	1820	674958	1 - 291	15 - 305	
HDPPQA91	1821	973075	1 - 799	15 - 813	AL134920, AW392670, AL119355, AW384394, U46341, AW363220, AL119443, AW372827, AL119341, AL119497, AL119319, AL119457, AL042542, AL119324, AL119335, AL119396, Z99396, U46347, AL119399, AL119484, AL119363, AL119391, U46350, U46351, U46349, U46346, AL119444, AL119483, AL037205, AL042433, AL042614, U46345, AL134524, AL119439, AL119522, AL134902, AL134527, AL042975, AL119496, AL042450, AL042965, AL119418, AI142131, AL042984, AL042544, AL042980, AL042970, AL043019, AL043029, AL043037, AL042978, AL079683, AL043011, AL043033, AL042551, AL043003, AL119464, AL119320, AL119488, AL042850, AL043039, AL043008, AL042973, AL042428, AC006238, AB026436, AR054110, A81671, AR060234, AR066494, AR069079, and AR043113.
HDPQC21	1822	786516	1 - 347	15 - 361	AA844106.
HDPQC83	1823	830539	1 - 465	15 - 479	
HDPQJ45	1824	928430	1 - 309	15 - 323	AI708005, AI001764, H78032, N67343, AA302697, AI270524, AA086150, AW157492, AA338167, AA338659, AI634691, AI678785, AI879394, AA449710, AI591375, R65651, AA855056, AI932600, AA845700, AA095637, AI053911, AF034194, AF037630, AI858864, AA074342, AW302724, F17142, AA847702, AA722297, AA679538, AI921043, AL042927, AI355414, AI932932, AA746726, AA287339, AA719073, AI733856, AA961035, AA077401, AI054414, AA737321, H64265, AA747009, N55515, AI798493, AA083215, R88067, AA365815, H11824, AA828062, AA503587, AI817230, AI922930, AW089898, AI494417, AI732789, AA493110, AA569786, AW069227, AI307565, AA381138, AW081303, AA630535, T47324, H69089, H65109, AA608715, AI634187, AA568494, AA605201, F36184, AI457313, AA587991, C15060, AA837035, T35761, AA833896, AA833875, H83470, AW270784, T51005, AI206669, AW302017, T52857, AI348678, AI367473, AI002708, AI916218, AC007536, AC005771, AC005340, AC005953, AL049773, AC002072, AC006972, Z93848, AL008716, Z70280, AC010382, AC004896, AC005050, M87898, AJ010770, AF092858, AF116241, U51280, AF001551, AC004882, AC007999, AC007199, AL034375, AL021154, AL117352, AL031311, AC066120, AC009336, AC001228, AC005933, AC006958, AL078477, AC003086, AC004821, D63861, AC004799, AL023882, AC005933, AL080242, AL078584, AB023049, Z82214, Z84572, AC004098, M87926, AL023882, AC005933, AP000247, AP000356, AC004821, Z97181, AC006011, AC007559, AP000512, AL137430, AC004796, Z46936, AL117330,

HDPQL15	1825	789876	1 - 415	15 - 429	AC004400, AC004476, AL050311, AC005200, AC006262, AL008729, AL035460, AC005399, AP000350, AC003013, AC007842, AL021395, AC004019, AL137578, AC003965, U82694, AC004783, AC004706, AC002377, AC010205, AC005829, AC005409, AC008080, AC006305, AC005067, AL035086, AP000017, AC002351, AP000555, Z69925, AF029081, U72788, AP000322, AC005625, AC005796, AC005885, AP000089, AP000142, AP000053, AP000121, AP000167, AC006597, AC002468, AC002426, AC008163, Z83826, AL035415, AL035088, AC006454, AC002456, AC005234, AL109628, AC006952, AF053356, AL050317, D87675, AC005578, AC007191, AL118507, AC005370, AC005841, AP000152, AP000010, AC005049, AL049557, AP000469, AC005921, AF165124, AC007298, I34294, Z97054, AC005800, AL049843, AC002312, AC007688, AL035681, AL109952, AL031296, U07561, AC002133, AC004517, AC005379, AC003963, AL031273, AC004834, U40455, AL035412, AC005193, AL031276, Z83822, AL031588, AL034424, AL133245, AL121653, AL049696, AC005138, AL079342, AL033397, AC004887, AC007917, AC006241, AC005037, AC006312, AC005695, AL022165, M87915, AC007193, U75931, Z81364, AC006071, AP000513, AL031315, AC005914, AC007666, AC005919, AC002299, AC007435, AC007207, AL139054, AC002465, AL110505, Z68282, AP000692, AC004510, AC004644, AC005624, AC004791, AC009363, AC002369, Z85987, AL109627, AL031846, AC007314, Z98755, AC005837, AC008123, AL133448, AC005089, AC007363, AC006211, U66061, AL050331, AL096775, AC006088, AP000159, AC003112, AP000558, U82670, AP000261, Z99715, AC005903, AF024533, AC006130, AC005365, AC002316, Z98048, AF031078, AP000035, AP000100, Z81369, AF124523, AL035588, AL034420, AF227510, AC005273, AC004825, Z99943, AL080317, AL079295, AC004057, AL021407, AC005088, AL121754, AC006538, AL022323, AC008124, AC005871, and AC004025.
HDPQL64	1826	746043	1 - 394	15 - 408	
HDPQL72	1827	760934	1 - 382	15 - 396	W73902.
HDPQN03	1828	923168	1 - 437	15 - 451	
HDPQO40	1829	949723	1 - 1727	15 - 1741	AI680867, AA973037, AA868809, AW169977, AA459970, AA235170, AA460062, AA235071, AA811821, AA234899, AW243583, R50382, T19463, R47735, AA765007, and AA748788.
HDPQQ77	1830	739816	1 - 363	15 - 377	
HDPQR31	1831	741278	1 - 422	15 - 436	AC003695.
HDPQU30	1832	768771	1 - 464	15 - 478	
HDPQV63	1833	744471	1 - 307	15 - 321	H09185, F12161, T75262, and T65253.
HDPRE08	1834	958933	1 - 661	15 - 675	H00911, H84847, and AP000404.
HDPRE10	1835	961306	1 - 400	15 - 414	AC005105.
HDPRG09	1836	828572	1 - 366	15 - 380	AI653128, AA608839, AI082182, AA294981, AW451945, AA361764, AI610135, AW402400,

					AA926743, AA759066, AA287428, AL039683, and AB033038.
HDPRH02	1837	919404	1-777	15-791	AI348070, AI373167, AI378134, AI553832, AI816769, AA804474, AI401522, AA887492, AI084865, AA741486, AI796192, AA913644, AW071892, AI942465, AW007026, AA279724, AI381670, AI292178, AA279692, AI291674, AW291184, AW298288, AW452501, AI224978, AI301454, AA913182, and AI378100.
HDPRH59	1838	739077	1-604	15-618	AA213441, and AF017714.
HDPRJ39	1839	773790	1-392	15-406	R45733.
HDPRL58	1840	724652	1-370	15-384	AC005803.
HDPRN15	1841	577985	1-439	15-453	
HDPRP29	1842	690399	1-606	15-620	AI174237, and AA019204.
HDPRP83	1843	773394	1-452	15-466	AC006213.
HDPRS79	1844	774077	1-288	15-302	AW236973, and AI521731.
HDPRY05	1845	958822	1-455	15-469	
HDPRY33	1846	893790	1-555	15-569	AI984149, T83298, T90781, AI598260, R94426, T80416, and Z97352.
HDPRY70	1847	677782	1-330	15-344	AW027929, AI672172, AW027716, AJ313156, AI831852, AI738441, AI816795, AI990910, AI824006, AJ961202, AI566917, AI394023, AW241527, AI693976, AI985370, AI384116, AI333382, AI768254, AJ366852, AJ337214, AI264540, and AC004917.
HDPSC55	1848	731496	1-308	15-322	AJ815715, and AB028996.
HDPSG10	1849	961323	1-443	15-457	AA310474, and AI831536.
HDPSJ84	1850	782867	1-409	15-423	R16664, T82134, and AL031133.
HDPSM07	1851	620372	1-587	15-601	N59251, AA504245, AI679277, AI922887, AI161077, AI767882, AW337496, AW138439, and AI679851.
HDPSO36	1852	959141	1-418	15-432	AI521731, and AW236973.
HDPSS57	1853	734507	1-563	15-577	AW264023, AI193596, AI276007, AI828424, AI342582, AI291713, AI140006, AI858631, AI500563, AI914656, H81012, AA847341, AA828840, AW339694, AI570067, AA873661, AA593168, AW238423, AW085626, R79396, R91350, AW243516, AW059706, AA947352, AA364082, AW028376, AI281622, AA632355, H85358, AA640563, AI760575, AI446618, R00693, AA364147, AI904126, AA991640, AW022796, AA515727, AI282322, AA420531, AA657834, AI003620, AI572680, AA493814, AI268465, AI814863, AA359194, F34164, AA310753, AW166996, AI500315, H57802, AA419014, AA502862, AL031427, AC003029, AF111168, AC006079, AC006071, AC004996, AL021546, AC005520, AC004233, AL021937, AL050318, AC005914, AC007314, AL021331, AC008372, AL133245, AL121653, AC002351, U07000, AL079304, AP000503, AC002425, AC005581, AF134726, AC006160, AL031255, AL049872, Z97056, AC004081, AC005911, AL034420, AL034371, AL050338, AC004126, AL035422, AC002094, AF195658, AC006285, AC005585, AL121658, AL133448, AL022165, AC007066, AC004801, AC005800, AC004099, AL031121, AC004893, AD000864, AF038458.

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HDPSU54	1854	670838	1 - 347	15 - 361	AL043945, AF159295, and U64205.
HDPSV04	1855	614924	1 - 410	15 - 424	
HDPSV29	1856	690415	1 - 423	15 - 437	AA403069, AW410514, AI751649, AA486011, and AA099117.
HDPSY30	1857	691778	1 - 342	15 - 356	
HDPTC31	1858	878639	1 - 355	15 - 369	D86967.
HDPTJ25	1859	706448	1 - 365	15 - 379	AW084431, AA279385, R70884, AW272389, AA984920, R70883, F33820, AA158549, AA158550, AA092704, AA126271, H81732, T52745, AW071109, AI469468, AI627917, AI298079, AA229159, AI567391, AL041682, T98915, AA425924, AL047480, AA381775, AI564215, AA582746, F23268, AI279417, AL041681, AI078409, AA932787, AA948727, AA523695, W81372, AA808847, R99613, AL044489, AA197019, C75139, R09127, AI204309, AL047645, AI928890, AI921348, AW316599, AA015948, AW132065, AA558404, AA458534, AA977419, AA772704, AA515631, AI613465, AI242614, AW193523, AA572824, AA568307, AA746939, AA526413, F07564, AA070462, AA487300, R98409, AI933478, AA830615, AA744021, AI749306, AI345497, AA334091, AA837529, AW055286, AI630894, AA904211, F33126, AA743794, R87135, AA074252, AA811954, T08205, AA831638, N92697, AA371003, H62923, AA548221, R96427, R48980, AI859906, AW023515, H71659, AI289050, AA890060, AA303165, AI284092, AW151761, H73550, AI587349, AI565445, AI668566, AA504892, AA372293, AI800345, AA730488, R98835, AW265126, W23432, AA604515, AA720582, AA782322, AL037777, AW265688, AW118963, H48768, AI476460, AI249688, AA669747, AI275982, AI686563, AI954464, H73306, AI360504, AA230105, AI692245, AI818702, AI096714, AA077637, AA515160, AA973971, AI811319, AA572813, AW083706, W42587, AA831801, AI929298, R29092, AA652830, AA320105, AA309457, AI929825, AA506952, U46402, AI188049, T05276, AW151541, AW169390, N30650, AI733523, AA620498, AI459733,

| HDPTJ79 | 1860 | 669209 | 1 - 1017 | 15 - 1031 | AW083728, AI038304, AI754567, AI654305, AA354695, AA909816, AW157180, AII41130, AI253376, AI566236, AI754567, AI569100, AW192599, AI754105, AA351808, AI755214, AI784258, AI624800, AA832016, AI671077, AA665475, AA586433, AI080307, AI671695, AA192189, AA98627, AA533923, AA493618, AI537108, AA612578, AI653776, AI096738, AJ006995, AC000394, AC004079, AL031984, AF043945, AJ239318, AL049911, Z97183, AL035551, AC007114, AC007387, AC006017, AL121838, AC002072, AC005666, AC004230, AC007263, AL109623, AC008150, AP000702, AP000701, AL035443, AC002477, AC005295, AL078600, AC005746, X54156, U94788, AC003681, AC004783, AC005320, AL034548, AC007773, AC005881, AL049553, AC004991, AC005602, AC004900, AL035413, AC016027, AC016830, AC002385, L12582, AP000317, AP000051, AP000119, AP000166, AL035703, AC000026, AC007192, AC005777, AL009183, AC000118, AF207550, Z84469, AC005972, AC007298, AC002059, AP000288, AP000109, AP000041, D87009, AC006040, AC005006, AL049557, U91321, AC005067, AL020993, AC003070, AL031000, AF111169, AF064857, M22970, X64467, AC005480, AC002301, AC003982, AC006251, AC002073, AC004982, AL096678, AC007036, AC002381, AL133162, AF072711, AC004796, AC004787, Z86090, AC004885, AC005203, AC004856, AL122020, AC010200, AC006111, AP000547, AC006430, AC004601, AC005364, Z68284, L48038, AL021453, AC002492, AL008707, AL021392, AC006236, AC007671, AC005237, L44140, AC010170, AC002287, Z94802, AC003026, AL109839, AL049631, AC005378, AL121603, AC005844, AC006317, AL031311, AC006480, U91323, AC005899, AC007308, AC002470, AC004232, AC007205, AF031076, AC004819, AF031078, AF030876, AC005695, Z82195, AF118808, AL109963, AL031009, AP000549, AC005514, AC005182, AL034554, AC006137, AL031983, AC002347, AL021578, U52111, AL031117, AC005531, AC006120, AC005082, AC006946, AC009731, AL034420, AC009509, Z93244, AB020864, AL023553, AC004685, AL031589, AL022162, AC002456, AC004551, AC010205, AC005803, AC005409, AF139813, AL096791, AC007917, AF111163, Z82171, AC005391, AL008719, AC005593, AL022343, AL033524, AL035419, AC005393, AC006006, AC007993, AL049636, AC003108, AC002094, U96629, AL096701, AL049871, AL022721, AC007656, AL022067, AL132800, AC008125, AL031591, AC005015, AC004522, AC004770, AC004228, M29929, U73634, AP000699, AC006276, AC005581, AP000300, AC000015, AL034421, AP000045, AP000113, AC004055, AL049643, AC005045, AL023581, AP000556, AP000557, AC007014, AL121769, AC006948, U91324, AL110200, AC006025, AC004832, U08988, U73647, AC004262, AC004762, AC004933, AL031657, AL109984, AC006101, AC004616, AC007347, AF001550, AC007225, Y07848, AL078639, Y10129, Z83856, AP000305, U91629, AP000690, AP001063, AP000047, AC006130, AL008582, AC004935, AP000115, AC004263, AF124523, Z99128, AL031588, AC005371, AL022316, AP000553, and AC005696. / AA255804, AW274671, AW450051, AA256697, AA810976, AA731140, AA831863, AA737424, and AA761219. |

HDPTO71	1861	1 - 662	15 - 676	AW131249, AL048534, AI783898, AA504896, AA668340, F17149, AI700109, AW277171, AA468022, AI309643, AI110595, AC008122, AB023048, AC002350, AC005837, AB001523, AF053356, AC005874, AF134471, AF111168, AL035450, AC007227, AC006077, AC005242, AC005197, AC002369, AL034423, AC005529, AC000353, Z82206, U66059, AP000356, AC005363, AC004643, AC004149, AC002558, Z81314, AL049748, AC005409, AC002312, AC007382, AC007955, AC020663, U91327, AL096791, AP000689, AJ250235, Z98257, AC004447, AC006011, AP000557, AC005747, Z84476, AC007934, AF031078, Z93928, AC006285, AC004598, AF030876, AC007787, AP000141, AC005952, AC006039, AL133448, AL109627, Z93017, AC006966, AP000088, U73479, AC005695, AL096710, AP000036, AC006480, AC005411, AC006029, AL049832, AC005399, AC007536, D87675, AP000688, AC005570, L78833, AL031255, AL031286, AC009516, AC000025, U73636, AC000081, AL080243, AC005696, AC005257, AC007387, AC002378, AC006544, AL049776, AL049845, AC005512, AC005913, AC007226, AC005081, AP000692, AC006512, AC007022, AL096775, AL031662, AF064861, AC007919, AC003982, AC007845, AP000355, X69907, AC005015, AL008712, AC002059, AC006137, AC007051, AC006071, AL022163, AC004634, AC007040. and Z98752.
HDPTP07	1862	1 - 355	15 - 369	AL079725.
HDPTS95	1863	1 - 489	15 - 503	AW298312, AW298314, and AB033097.
HDPTT20	1864	1 - 316	15 - 330	Z84488.
HDPTU30	1865	1 - 343	15 - 357	AL049795.
HDPTU66	1866	1 - 374	15 - 388	
HDPTU95	1867	1 - 312	15 - 326	
HDPTW90	1868	1 - 565	15 - 579	
HDPUD28	1869	1 - 252	15 - 266	AI417133.
HDPUF77	1870	1 - 246	15 - 260	
HDPUF94	1871	1 - 438	15 - 452	H82937, AA418494, AA418396, AI064869, AW051301, T84203, F18098, AA846353, AA767276, T11545, H58588, T82034, AI609370, AA594971, U80017, AC002527, AC002302, AC004799, AC003010, AC004821, AC005011, AC005225, AL023755, AP000962, AC005071, Z80902, AP000502, AC002326, AF134726, AC005329, AC005031, AL133355, AC004922, AC004491, AC004839, AC004143, AC004976, AC004125, AC005564, AC002132, AC007151, AC002549, AL034419, AL009031, AC005763, AF024533, AC008015, AC005899, AL035685, AB026906, AC005162, AC006014, AC007546, AC006251, AC002301, AC002112, AC005015, AC007225, AL023807, AC003048, AC004878, Z97200, AC005488, and AC005764.
HDPUG06	1872	1 - 459	15 - 473	AC002091, and AC003695.
HDPUQ02	1873	1 - 683	15 - 697	AC006238.
HDPUS62	1874	1 - 365	15 - 379	AI500481, F06397, AW148768, AI681168, N36045, AI133235, AA491120, R18846, T90676.

HDPVD09	1875	774165	1 - 723	15 - 737	AA054341, AL039390, AL046681, AI890907, AL046137, AI249936, AL044204, AI049726, AA598862, AL042551, AI672187, AL045166, AI431235, AI888022, AW151136, AL120789, AI932620, AW058275, AI866484, AL042009, AI366900, AL047188, AL135730, AI689247. AI623302, AI884585, AI538615, AI431307, AI431316, AI924051, AI920975, AI866786, AI431315, AI682915, AI866465, AI815232, AI801325, AI866691, AI500523, AI538850, AI887775, AI582932, AI590043, AI872423, AI923989, AI284517, AI500706, AI491776, AI445237, AI926593, AI289791, AW151138, AI889189, AI521560, AI500662, AW151974, AI285417, AI284509, AI582912, AW172723, AI539800, AI499512, AI889168, AI538885, AI440263, AI927233, AI866573, AI633493, AI434256, AI866469, AI805769, AI434242, AI888661, AI500714, AI284513, AI872310, AI88116, AI285439, AI859991, AI436429, AI355779, AI889147, AI623736, AI581033, AI371228, AI491710, AI440252, AI872315, AI440238, AI432656, AI567971, AI860003, AI610557, AI242736, AI539260, AI828574, AI887499, AI539781, AI702065, AI539707, AI885949, AL133074, Y17793, AL133076, AL133053, AL133049, and AL133078.
HDPVE36	1876	706712	1 - 546	15 - 560	AA256770.
HDPVG11	1877	966556	1 - 910	15 - 924	AW068637, AI003761, AI039369, AI380538, and AL137555.
HDPVH13	1878	656711	1 - 581	15 - 595	W26587.
HDPVL94	1879	927023	1 - 463	15 - 477	Z81450, and AC004652.
HDPVQ96	1880	796133	1 - 389	15 - 403	AA777374.
HDPVR71	1881	740340	1 - 850	15 - 864	AA082562, and AC007899.
HDPVU35	1882	852616	1 - 623	15 - 637	
HDPVV46	1883	718160	1 - 399	15 - 413	AB002344.
HDPVV95	1884	582503	1 - 351	15 - 365	
HDPVW13	1885	656715	1 - 585	15 - 599	AC006207.
HDPVY53	1886	727593	1 - 317	15 - 331	AA948370, AC005390, and AB023180.
HDPVY58	1887	710458	1 - 365	15 - 379	AL038081.
HDPWA55	1888	965474	1 - 408	15 - 422	AC006966.
HDPWD25	1889	677764	1 - 500	15 - 514	
HDPWE80	1890	909916	1 - 932	15 - 946	AA172104, AA232124, AI986306, R58806, AA081848, and AA232093.
HDPWE88	1891	857980	1 - 427	15 - 441	R18560, R13864, Z41866, AA333327, AA016124, AF107834, AF119386, AF097723, AF009513, and AF107835.
HDPWH10	1892	967692	1 - 472	15 - 486	AI758788.
HDPWN34	1893	703814	1 - 451	15 - 465	AA714632, D45305, AA307780, and AI923248.
HDPWY46	1894	915964	1 - 462	15 - 476	AL120101, AW246324, AF034175, AI460387, AW401572, AA338094, AA348155, AA316673, AA33791, R59433, U46268/ AW402296, AA955027, AA393071, AF061738, AC006160, and

1755

HDPXE68	1895	852626	1 - 635	15 - 649	S65367.
HDPXF52	1896	726450	1 - 440	15 - 454	AF004231.
HDPXL59	1897	615543	1 - 568	15 - 582	AI697586.
HDPXL68	1898	707532	1 - 830	15 - 844	AA115345, N51515, AW297689, AA115304, N51527, AI925591, and AL080209.
HDPXP04	1899	614895	1 - 745	15 - 759	AA789296, and AI420081.
HDPXU29	1900	852638	1 - 519	15 - 533	T62674.
HDPXW75	1901	951320	1 - 771	15 - 785	H72530, AI207465, W52505, AI311647, AA174017, N72717, AA007673, N68472, AA773302, AA174016, AA223762, AI371165, N71291, AI457389, AL121782, AL008718, AC005833, AC004531, AC002369, AC005759, AL049757, AP000533, X77737, Y12851, X77738, L35930, AL031672, AC009336, AF109907, AP000553, AC007022, AF157814, AC004813, AC010205, AC005066, AL034552, AF001552, AC002395, AC005291, AC005789, AC000159, Z98941, L78833, AC003102, AL031591, AC000067, AC000093, AC007243, AF053356, Z49258, AC002375, AC006121, AC004828, AC006236, AC006388, AC005305, AC001231, AC006001, AC002086, AL008712, AC005695, AL050321, AL049544, AL035420, AC000105, AC006543, AC005664, AL022336, AC005911, AF111168, AC004805, AC006547, AC007533, AB014084, AC004659, AC006544, Z95118, AC004032, AL132992, AC004752, U07000, AL117258, AL031680, Z98742, AC004966, AF006487, AP000501, and AC003983.
HDPXW75	1901	951320	1 - 771	15 - 785	N46466, AI337376, W86648, AA522544, AI279721, AI341807, AI651516, AI245138, AI262580, and W86523.
HDPXX01	1902	915914	1 - 392	15 - 406	
HDPXZ92	1903	743429	1 - 673	15 - 687	
HDPYC51	1904	919000	1 - 333	15 - 347	AA831180, AA593812, AI608672, AA877902, AA845911, AW136605, AA831016, AW139428, AI920936, AI421209, AL138419, AL138420, W70159, AA034272, AI143351, W96568, AI870975, AI129781, AI749544, AA029334, W96468, AI801387, AI424505, W87792, AI342176, AI363136, AI310128, AI343371, AA029335, AI138774, AI217508, AI337280, AI832175, AI018551, AW195185, AW080907, AW009317, AA033560, AA339417, AW245250, AA523730, AI658874, AW138805, W70198, AW340796, AA781337, T89101, AA032082, AA746107, AI659538, AI989852, W87672, AI699899, R46554, R46555, AA340560, AI499481, AI890907, AI623302, AI431307, AI431316, AI431238, AL043278, AI815239, AI506659, AL134524, AW193598, AI866786, AI866465, AI815232, AI801325, AI866691, AI500523, AI804505, AI538850, AI887775, AI582932, AI434223, AI872423, AI590043, AI284517, AI923989, AI500706, AI491776, AI445237, AI289791, AI926593, AW151138, R50170, AI521560, AI889189, AI500662, AW151974, AI285417, AW172723, AI284509, AI539800, AI582912, AI889168, AI538885, AI440263, AI927233, AW058275, AI866573, AI633493, AI434256, AI866469, AI805769, AI434242, AI888661, AI500714, AI284513, AI888118, AI285439, AI890472, AI436429, AI859991, AI623736, AI355779, AI889147, AI581033, AJ371228, AI491710, AI440252, AI440238, AI924051, AI567971, AI610557, AI860003.

HDPYD58	1905	726288	1 - 323	15 - 337	AI242736, AI539260, AI828574, AI887499, AI539707, AI702065, AI885949, AI285419, AI559957, AW089557, AI521571, AI469775, AI866581, AW074057, AI567953, AI815150, AI446495, AL040491, AI889191, AI867068, AI952433, AL039390, AI225248, AI358271, AI798359, AI872315, AI932620, AI698352, AI282249, AI371229, AW151107, AL042551, AI371237, AI249936, AW194509, AI432644, AI355008, AL045166, AW151979, AL046681, AL039287, AI963852, AI494201, AI866458, AL046137, AI537677, AI371251, AI440260, AI866510, AI784016, AI499535, AI866461, AI923046, AI865995, AI521228, AI672187, AI955221, AI682915, AI500518, AW151132, AI432666, AI539771, AI689247, AI289386, AW151136, AI924024, AW132015, AI561170, AI690946, AI469764, AL047611, AI648567, AI433157, AI432650, AL048403, AI362391, AI521596, AI433978, AI828584, AW151970, AI801286, AI866484, AI687588, AI432653, AI474699, AL042787, AI431323, AL042655, AI431321, AI371243, AI431315, AI469754, AI499543, AL042533, AW081103, AL042853, AI345471, AL043166, AI432656, AI440236, AI289747, AL008718, AB023147, AL133076, U85195, AE000658, AL133655, AL122101, AL133053, AF126531, Z69719, AF045555, AL049538, AL133655, U30290, AL133074, E13998, AC005826, AC007358, AL023280, AL031282, AC005345, AR059958, AL133020, AL121603, AL031407, AC004544, AL049776, AC005993, AL031390, AL022324, AP000299, AP000113, AP000045, AL049795, AC005482, AC005483, U89387, AC006002, AC004656, AC005520, AR015970, AC004900, Z94162, AC005074, AC002078, AC004027, AC002430, AL009029, AC007384, AL121915, AF002985, AR055519, and AR034821.
HDPYD92	1906	791222	1 - 207	15 - 221	AW179153, AW179151, AW179152, AW179089, AW179088, and AL122043.
HDPYE96	1907	717598	1 - 485	15 - 499	AB011158, and Z61808.
HDPYF79	1908	774272	1 - 498	15 - 512	T87457, T99432, W88845, R06479, and AA226858.
HDPYH79	1909	886845	1 - 168	15 - 182	
HDQDU40	1910	791340	1 - 621	15 - 635	
HDQEA94	1911	793378	1 - 633	15 - 647	AW021230, T97381, D87685, and AF091622.
HDQEC77	1912	771351	1 - 669	15 - 683	
HDQEC82	1913	779149	1 - 481	15 - 495	AL119443, AW392670, AL119363, AW372827, AL119319, U46346, AW384394, U46351, AL119497, U46349, AL119496, AL119457, AL119335, U46350, AL119484, AL119391, AL119444, U46347, AL134528, AL119324, U46341, Z99396, AL134518, AL042970, AL119355, AL119483, AL119341, AL119439, U46345, AL134524, AL042965, AL119522, AL042614, AL042995, AL119399, AL037205, AL119396, AL134538, AL119418, AL119304, AL043029, AL042450, AL042975, AL042850, AL119320, AL042544, AL042542, AL042984, AL119464, AL042551, AL043003, AB026436, A81671, AR054110, AR060234, AR066494, and AR069079.
HDQEF04	1914	927024	1 - 553	15 - 567	N75118, AL022157, and Z82211.

HDQEF89	1915	1 - 531	15 - 545	
HDQEJ75	1916	1 - 392	15 - 406	
HDQQEN22	1917	1 - 508	15 - 522	
HDQQES62	1918	1 - 661	15 - 675	AW269444, AA669114, AW082136, AI914499, and AC000398.
HDQQET03	1919	1 - 478	15 - 492	AL119391, AA833896, AA833875, AA457070, AI640411, AA721645, AA828739, AA829154, AI017251, AI811653, AA655005, AA834885, AI887716, AW089898, R08918, AA584125, AC004066, AC005209, AC006960, AC004707, AC007664, AC007327, AC007225, AC005828, Z85986, AP000503, AC005375, AF134726, AC008018, AC005944, AC003991, Z95115, AL033527, AL133163, AC006958, AC004993, Z82178, AL035405, AC005011, AC004106, D28126, Z49155, U07561, AC005954, AF002997, U95739, Z81364, Z85987, AL031282, AL008721, AL031673, AC004590, AC006316, AC007388, AC004832, AC007876, AC005516, AC000111, AD000813, AC005763, AC002316, AL023799, AL022312, AL049795, AL034549, AL022165, AC005688, AC006430, AL031643, AC006128, AC004542, AC004552, AL136297, AC005562, AC005996, AP000212, AP000030, AP000252, AP000134, AC006011, AC006328, AC005037, L78833, Z82205, AC007283, AL031281, AC005484, AL009183, AC006050, U62293, AL050307, AC007540, AC006312, AC007114, and AP000690.
HDQET24	1920	1 - 642	15 - 656	AW450053, F11194, and U91321.
HDQEU26	1921	1 - 503	15 - 517	
HDQEU63	1922	1 - 524	15 - 538	D25538, and Z49806.
HDQEU92	1923	1 - 743	15 - 757	AI142131.
HDQFA01	1924	1 - 1363	15 - 1377	AW297731, AI885498, AA809854, AI831297, AA687107, AA809960, and AI523034.
HDQFC85	1925	1 - 1331	15 - 1345	
HDQFK04	1926	1 - 673	15 - 687	
HDQFU11	1927	1 - 319	15 - 333	
HDQFW03	1928	1 - 542	15 - 556	AA476647, U25898, and AC005182.
HDQGB04	1929	1 - 500	15 - 514	D79099.
HDQGC76	1930	1 - 486	15 - 500	AL119319, AL042551, AW392670, AL119457, U46346, Z99396, AL119363, AL119341, AL119497, AW372827, AL119443, AW363220, AW384394, AL119484, AL119391, U46351, AL119324, U46350, U46347, U46349, AL119355, AL119496, AL119444, AL119483, AL134518, U46341, AL119335, AL134538, AL042965, AL134902, AI142132, AL119439, AL119418, AL119399, AL037205, AL119401, AL119522, U46345, AL119396, AL042450, AL042614, AL134525, AL134536, AL042970, AL119320, AL134532, AL042975, AL043029, AL043019, AL042984, AL042542, AL119464, AL043003, AB026436, AR054110, AR066494, A81671, AR060234, and AR069079.
HDQGG01	1931	1 - 201	15 - 215	·
HDQGK63	1932	1 - 633	15 - 647	AC007395.

HDQGK93	1933	791744	1 - 429	15 - 443	
HDQGQI1	1934	966100	1 - 624	15 - 638	R64617, H86221, AA541532, AA630122, AA312303, AA659360, T47389, AA070927, AL037777, AW188742, AA601237, H84412, AI873759, AA302661, AA019003, AA669711, F35097, AA654874, T71936, AI160786, R72363, AL139054, AC002312, AC005231, AC000379, Z83844, AL031666, AC009509, AC004103, AL022323, AB003151, AC005695, AL022326, AL021977, AC007199, AL109657, AC005071, AC000353, AC005519, AC006241, AC006449, AC004878, AP000500, AC004134, AC004922, AC004821, AF042089, AC006023, U91321, AC004081, AL034417, AP000688, AF205588, Z93023, AL109952, AL035420, AL117337, AL035400, AP000509, AC006251, AL133163, AL024498, AL034549, AC004814, AC005815, AC004386, AC004491, AC002039, AL008718, AC007551, AL022165, AC005763, AL049780, AC004955, AC002128, AL078581, AF001549, AC004257, AC005081, AC005207, AL022316, AP000210, AP000132, AC004659, AC002418, AC006538, AC005620, AL135744, AL122023, I34294, AC070011, AL050317, AC005058, U85195, AC004910, AC005046, AC004851, AC005089, AL049576, AP000248, AC016006, AC004217, AC004139, AC002395, AC006014, AC005088, AL022327, AL033527, U07000, AE000658, AF196969, Z85987, AC005531, AC003043, AC005225, AL096701, AB015355, Z97054, AL031311, AF111168, AL109628, AC009501, AF001550, AC002126, AC007919, AC005015, AC005932, AC003029, AC002115, Z95116, AL079340, AC004865, AC006047, AC005399, AL049694, AL031662, AC005332, AL109865, AC000075, AL109758, Z95114, AC007381, AC007899, AL035684, AL035072, AC006547, AL096791, AD001527, AC004770, AC002073, AC006312, AC004996, Z86090, AL031595, AL080243, AC004099, AC003080, AL049776, AC006211, AL049795, AL133246, AC002375, AC007151, AB023049, AC006468, AL050318, AC004815, AC002310, AC002425, AP000345, Z68872, AL022318, AC005049, AC006011, AL035455, AC003042, AC010077, AC004805, AC007308, AL021528, AC007421, AC012039, AC005383, AP000512, AL022336, AC005484, AC006450, AL078593, AC002476, AL022337, AL031291, AC006048, AL109827, AL031432, AL034429, AJ003147, AJ251973, U91326, AL020995, AC004560, AL121655, AC000120, AC005800, AC005387, AL022237, AC010206, D84394, AC005295, AC005913, AC005632, AC006536, AP000555, AC002072, AC005856, AC002301, AC006948, AL133245, AC009247, AC005261, AL031281, AC002036, AC006077, AC006254, AC007993, AC004694, AF030453, AC004884, and AP000689.
HDQGR80	1935	880654	1 - 509	15 - 523	
HDQGT70	1936	909848	1 - 436	15 - 450	
HDQHF10	1937	963485	1 - 395	15 - 409	AA809589, and AA532423.
HDQHK04	1938	926988	1 - 949	15 - 963	AA847392, H45758, AA021644, and AA010967.
HDQHM43	1939	852556	1 - 559	15 - 573	
HDQHO04	1940	926976	1 - 212	15 - 226	

HDQHO07	1941	852555	1 - 421	15 - 435	AC005390.
HDQHP44	1942	811790	1 - 502	15 - 516	AA428432, AF033033, AC008372, and Z81364.
HDQHQ83	1943	973129	1 - 493	15 - 507	AL044340, AA577824, AW022897, AA601125, W23726, AA161492, AI250561, AW166697, AI345007, AI345797, AA593465, AA226084, AW023662, AA577906, AA484749, AI133448, U47924, AC006965, AL117352, AL024507, AC005527, AC004584, AC004491, ALI09627, AC005049, AC005529, AC006211, AP000356, AC004167, Z85986, AC007242, AJ246003, AC004895, AC005952, AC002565, AC005089, AC006536, AC006538, AC005335, AC006251, AP001054, AL121658, AP000557, AC006538, AL049776, Y18000, AL022237, AC007055, AF030453, AP000556, AP000354, AC002369, AC005495, AF053356, AC004097, AC003109, AL133163, AC005220, AC005747, AC006312, AC007308, AC006012, AF001552, AC004000, AC005391, AC003664, AC002301, AC005015, AC004841, AC007226, AC003983, AL031311, AC002430, AR036572, U91328, AL031291, L44140, AP000008, AP000511, AC004963, AL035420, AC007384, Z93023, AP000704, AC004079, AC006449, AC006238, AC002551, AF111169, AC004149, AC004408, AL021154, AL020997, AC006509, AC009542, AL049709, AC006088, AL035460, AC005500, AC005940, AC005332, AC004967, AC004217, Z98304, AC003098, AC007201, AC005088, AC004522, AC006050, AB017602, AC004671, AC004882, AC006270, U91326, AP000114, AC000114, AC005726, AC002464, AC006946, AL031276, AL079303, AC005548, AL049636, AC002544, AC005225, AC002094, AC005180, AL008718, AC006130, AP000269, AC005920, AC005102, AC007324, AL109984, AC006241, AC005067, Z95114, AP001052, AC005277, AC003665, AL133485, Z84487, AL031432, AC005841, AF217403, AC004084, AC006057, AL035072, AC006480, AC005081, U80017, AC002472, AC002425, AP000103, AC004520, AC005581, AC007225, Z97055, AC040353, AC007664, AP000032, AC003071, AC007878, AC004983, AC005822, AC000353, AC004834, AC010205, AL050325, AC004020, Z84466, AC004143, AC005409, and AL031281.
HDQHT10	1944	963481	1 - 481	15 - 495	W31096, and AC005783.
HDQHZ10	1945	961336	1 - 474	15 - 488	AA179094.
HDQHZ22	1946	879416	1 - 396	15 - 410	
HDQIH19	1947	974391	1 - 504	15 - 518	AA557945, F16848, AA984829, H68343, AA507623, AA659832, AA368329, H15241, AA434078, AA569206, AA558404, T47138, F34151, H54252, HS3284, AI249519, AA664963, AA610255, AA557790, AA778580, AI732911, W45215, AW265279, F34157, AA470490, AI567391, AA662614, AA368012, AL134332, F31867, AA845333, AA776225, AI671077, AA831919, AA371410, AL045423, T03928, N23504, AI345497, AI049630, AW237905, F24745, H86399, AI114494, AI860423, H43183, AI198718, AI190648, AA078483, DS1877, AA846923, AW381821, H52397, H85808, AA846482, AW236277, AI619933, AI828721, AA778962, AA102737, AI800343, AI859744, AA911515, AI065031, AI337612, AA366601, AA225627, AW419389, AW265614, AA610433, AW265276, H58393, AW381823, AI284543, AI054090, AL079734, AA468458, AI929298, AI358928, AA568314, AI929825, AA706202, AA084032,

AA715075, AA584810, AA633875, AW238321, AA644090, AL117258, AL049697, AC002312, AL031133, AC012085, AC007030, AC005914, AC002476, AC005081, AC005015, AF107885, AC003973, AC008372, AC005519, AC004079, AC002492, AL031123, AC006360, Z85996, AP000140, Z68276, AC004841, AL049776, AP000350, AC004383, U95739, AC005697, AC005412, AL121652, AC005736, AC006511, AP000088, AC004882, AC005323, AL109628, AL049844, AP000270, AB007869, Z99716, AC005086, AF064019, AP000563, AL008712, AF053356, AL033525, AF196779, AC007450, Z82206, AC004702, U95743, AL031311, AP000133, AP000211, AC006071, AC005082, AL050348, AL009181, Z86090, AC005539, AL133500, AC007216, AC006959, AC004020, AL031295, Z98044, AC005332, AC002107, AP000089, AP000141, AC004132, U47924, AL021546, AC004007, AC004953, AC005193, AC006011, AC005520, AC006509, AC004967, AL021391, AC005243, AL031666, AL049778, AC002483, AC006571, AP000032, AC002477, AC009399, AC006449, AF196969, AC006130, AC004253, AC006115, AC005544, Z80232, AC005529, AC004890, AC005566, AC004655, AC004686, AC005157, AC009516, AL121655, AC006064, AC004834, AL133448, Z84467, AL022476, Z98885, AC007637, AL049829, AL034555, AC005531, AP000303, AC000159, AC007151, AL031282, AC007993, AL035410, AC005189, AB022785, AC004938, AP000036, AP000514, AL031291, Z98036, AC005971, AL135744, AL021154, AC004883, AC005913, AL133246, AC002310, AC007199, AL035420, AC005207, AP001052, Z98742, AC005363, AC004985, AC006238, AC002400, AL031432, AL008629, AC006960, AL021977, AC005803, Z82182, AC005067, AP000547, AL109952, AC005682, AL049780, AC007298, AC005696, AC009542, AC002546, AC004033, D87675, AP000553, AL132992, AC005527, AF045555, AC005479, AC010170, Z75407, AL031284, AL031846, AC005952, AL031186, AF043945, AC004142, AP000509, AC004765, AL031728, AC004104, AC002398, AL008635, AP000047, AC002073, AF109907, AL022336, U95741, AC005562, AL049779, AL133371, AC004966, AC005274, AC002094, AL008630, AL031447, AC004185, AL109758, AC004531, AC006121, AC007182, AC005785, AC005753, AL049869, Z99128, AC007056, AC003688, Z83823, L78810, AP000046, AP000114, AC002563, AL008731, AL121825, AC006057, AL109963, AC004554, AC000025, AC005318, AC005878, AL050307, AC006222, AL024509, U91321, AC005480, AJ010770, Z97056, Z98752, AL049757, AC004491, AL023553, AC004851, U50871, AJ246003, Z97183, AP000704, AP000130, AP000208, AP000503, AL121748, AC008044, AC002195, S42653, I34294, AC006044, AC005551, AC006088, AP000115, AC007371, AL035458, AC005829, AL109798, and AP000247.

AI569060.		15 - 536	1 - 522

AA250925, AI610805, AW022188, AI276031, AW204488, AA978318, AA769333, AW340955, AI683013, AA135812, AA767902, H88636, AI273005, AA358212, AA405245, AA242773, AW078958, AI273047, AA493696, AI250660, AW026945, and AL134115.		15 - 592	1 - 578

HDQMD14	1951	783547	1 - 328	15 - 342	
HDQPI83	1952	780731	1 - 687	15 - 701	AI284640, AW301350, AW303196, AW274349, AI754955, AAS81903, AI110770, AI334443, AI133164, AI345518, AI708009, AW072923, AI801591, AL138265, AI281881, AW276827, AL042420, AJ085719, AA483771, AI624142, AI610159, AW265009, AJ679132, F36273, AL120687, AI471481, AW270270, AA164251, AI064864, AA491814, AL119691, AI379719, AW406447, AI375542, AL046898, AI821714, AI792133, AI791913, AA649642, AL038474, AA525190, AA908687, AF150152, AI821785, AI053672, AA584201, AAS53468, AI801482, AI340453, AI355206, AI537955, W79504, AW439558, AI110760, AW148792, AI590958, AI623898, AI148277, AA126051, AA126035, AI431240, AA493708, AW338086, AA521323, AI733856, AL048925, AI590689, AW088616, AI871722, AI370878, AW162489, AI471572, AI632991, AAS21399, AI344844, AA806796, AL037554, AI674873, AA601253, F32808, Z98884, AL121757, AC004941, AL122020, Z99943, AC007546, AC002429, AC002994, AP000568, AL035458, AC006254, AC002524, AL035089, AC006084, AC005244, AC007022, Z84470, AL133500, AC004386, AC004385, AL035427, AL032821, AC003071, AC005971, AF190465, AC007537, Z93928, AL049552, AC003962, AC005066, AC004993, AC003015, AC007068, AL109865, AL049792, AL135783, AC005670, AC002377, AF029308, AC008079, AP000352, AC004806, AC007676, AL031885, AL035563, AL121655, AC005011, AL035460, AL031588, AC007066, AC002302, AC002430, AR036572, U91328, AC007156, AC007384, AP000049, AC004990, Z76735, AL049776, AP000311, Z98172, AC007363, AL096867, AC004895, AC007630, AC002115, AC011604, AC002128, AC002531, AC004491, AC002418, AL049867, AC006430, AC005618, AL033397, AL133448, AJ011930, AC006079, AC004822, AF118808, AC000114, AC005385, AF109907, AC004916, AC006037, AC006226, Z97054, AC004087, AC002402, AP000552, AC006511, AC005261, U91323, AL109628, AP000555, AC005037, AP000432, AC004838, U85195, AL023494, AL132994, AE000658, AC004998, AC004912, AL049557, AC006128, AL109967, AJ003147, AL121591, AC002470, AC005837, AC006539, AL049795, AC007488, AC006210, AL121603, AC006479, AC004987, AC004858, AC007686, AC002404, AL023882, AL035249, AC005062, AL121653, AC006509, AF064866, AC005234, AC004755, AP000500, AL049712, AC002996, AC008039, AC004626, AF001549, AP000354, AC007099, AL031281, AC002385, AC007228, AL034384, AC004884, AC005189, Z98200, AC007216, AL031311, AF134726, AC005921, AC006525, AC009069, Z92545, X75335, AC005393, Z97053, AC004933, AC006251, AC003664, AL121694, AL096712, AC010206, AF077058, AF123462, AC006211, AL035494, AL139054, AC004534, AL096791, AP000557, AC006561, AL121823, AC004765, Z99129, AC005242, AL021069, Z86061, AC005839, AC007298, AC005993, AC005808, AC002091, AL021453, AC004972, AC005358, AL033525, L44140, AC005944, AF003627, AC002394, AC006213, AC003982, AC000085, AL031670, AC006989, AL121748, AC006537, AL121580, AL031668, AC004650, AL022311, AL132992, AC005610, and AC005696.

HDRAB68	1953	752316	1 - 196	15 - 210	
HDTAG28	1954	765834	1 - 159	15 - 173	
HDTAQ55	1955	728772	1 - 353	15 - 367	AA380977.
HDTAY23	1956	973925	1 - 352	15 - 366	AA504311, W45240, AA431996, F13467, F13502, and H10924.
HDTBF27	1957	683389	1 - 759	15 - 773	AA234529, AI565424, AI624101, AI694224, and AC005021.
HDTBL45	1958	785534	1 - 431	15 - 445	
HDTBO48	1959	945083	1 - 505	15 - 519	
HDTBO74	1960	765555	1 - 453	15 - 467	AA480145, AA837058, AA663306, F19258, AA713815, AA491814, AA365347, AA551509, AI205126, AA228329, AA826032, AI003172, F26719, AI886176, AI921188, AA515435, AI003743, T16592, AA095511, AI054246, AW088058, AI820743, AI565245, AW088202, AI282907, W60516, AW080134, AW406447, AI281903, AA340003, AA652764, AI053816, AI904894, AI567674, F29989, AA482711, AW301818, AA361344, AI282832, AA593060, AL041368, AI358229, AA318652, AI307426, AA077935, AW406755, AW104748, AI365988, AI474713, AW339687, AF177861, AA365144, AL138265, AW361583, AI635272, AA856981, N43757, AI963095, AI791503, AI732546, AA077817, AW071063, AI214510, AI802526, AA450199, F31204, AW074398, AI791290, AW022046, AI921649, H64777, AI679782, F35659, AI989742, AI376100, AI561335, AA292574, AA557325, AA501722, AW074059, AA252763, AI356904, AI922654, T12272, AA515128, AI564284, R72392, AA428414, AA743956, AI570138, AI536555, AI929531, AA077776, AA434484, AI284640, AJS37955, AI446601, AW162049, AI251002, AA729264, AI962050, AA228420, AA515051, AAS81342, AI890923, AA229785, AA658235, AW029038, AA932099, AI610159, F36273, N25303, AI917271, AA584749, AA653057, AI471481, AW166815, AA745410, AA919037, AA243452, AA218645, AW074207, AI610920, AI499134, AA580662, AL138455, AI139968, AI051551, AI286356, AII88469, AII10770, F37286, AA826004, AI053672, AI345675, AI339850, AJ345681, AJ357551, R41717, T06556, AI334443, AI865364, AW008317, AA342958, AI471729, AL048925, AL120674, AI049634, AW193265, AI816537, AI003611, W25284, AA654627, AI951863, AA364567, AA843450, AW401783, AA501784, AI079667, AW302101, AA077952, AA829106, AI248679, F32395, AL119391, AI742771, AW276435, AI547286, AA443065, N71724, AI285615, AA652057, AA441788, AA649642, AI149915, AAS01344, AI286264, F25203, AW438916, AW340844, AI469172, AA650244, AI493615, AW419262, AL048616, AI312149, AW440836, AW105538, AA634855, AA774923, AI049722, AA602069, AL046898, N71596, AI912322, AI299050, AL079804, AA558227, AA886584, AW302309, AW276827, AI807372, T71998, AI268812, AII33636, AW265294, AI926124, AA904218, AW339568, AI431966, AA559290, AI433187, N27353, AA125788, AI469878, AL040913, AI803348, T40338, AW274101, AI421213, AA648110, AA366035, AI951889, AI951928, AA757474, AI192740, C06327, AI368745, AA178953, AL043756, AA503258, AI368256, AA320977, AL038785, F18974, AI133164, AC002426, AL034548, AL109756, AL021578, AC004903, AL009181, AC005089, AC006312,

HDTBO94	1961	869818	1 - 562	15 - 576	AC006153, AC001234, AC004027, AC004254, AL031121, AL035458, AC006333, AC002982, AC004088, AP000692, Z86061, AF015168, AL031734, AC005099, AC003119, AC006984, AC002542, AC005331, AC004460, AC004020, AL136295, AC005999, AC006222, AC012627, AF060568, AC005911, AL117258, AL049829, AC004236, AC004522, AL050338, AC007845, AL121603, AC006285, AC005084, AC016025, AL049776, AL022323, AL034419, AC002504, AL109764, Z74739, AC004458, AP000474, AC005064, AL109799, AC002072, AL031577, Z65382, AC003029, AC004041, AC000083, AC002117, AP000017, AP000158, AC006539, AL109622, AC000097, AC006547, AC005040, U47924, U91324, AC007059, AC004520, AC003088, AC004491, U95739, AL031432, AC006128, AC008055, AC004167, Z82216, AC005324, AL035072, AC006561, AP001037, AL049691, Z84480, AC003009, AC005389, AL080286, AP000954, AL121915, Z71187, AC006352, AC007239, Z97053, AC006992, AC004617, AC002056, AL110502, AC002432, AL033381, AL096701, AP000355, AL121578, U14702, AC006241, AF015163, AC007191, AC003101, AC006208, AC004916, AL031584, AF029308, AL049554, AC005004, AC001530, AF140763, AF015170, AL031709, AC005755, AC005866, AC005186, AL031770, AC005194, AC006552, AC007358, AC006384, M87918, X67277, AR042836, AC007285, AC005751, AC005838, AL031279, AC004785, Z84485, U78027, AC002462, AC003104, AL035422, AC005666, AC007227, AC016026, AL021937, Z92542, AC007056, S75201, AC002553, AL096734, AL078604, AC004186, AC003960, AF045448, AL049758, AF121781, AC008103, AC002558, AC004230, Z82203, AL049589, AL008634, AC022517, AC007325, AJ003147, AC006972, Z83819, AF053356, U14703, AC004534, AC006207, AC006840, AC005280, AL109802, AF201337, U80017, AP001172, AC004526, AC004960, AC005778, AC004675, AF067122, AL033525, AC007151, AP000306, AP000047, AL031905, AC003085, AF131217, AC008062, U62317, AC006195, AC004381, AC004827, AP000115, Z99129, AL078593, AJ000170, U91322, AF137396, AC000075, Z98046, AC006323, Z97635, AL034373, AL031735, AC005664, AL022394, AC007671, AC005225, AC007370, AL035665, AL049696, AF117829, AC006538, AC004931, AC007193, AF08S219, AL020996, AL109654, AC008015, AC005746, AC007320, AL133245, U12583, AF147277, AF023460, Z68328, Z97196, AL035468, AC007242, AL049760, AL031280, AL035258, AC007254, AP000432, AC006975, AL035469, AC009044, AL023513, AC004886, AC006952, AP000154, L13713, AC004638, AC002375, L13714, and AC002523.
HDTBQ20	1962	886757	1 - 458	15 - 472	N69991, W47065, AW368643, AW340968, W00799, W04207, AI420674, AW027417, AA779727, AA736509, AW263261, AI090172, AA814921, AI924139, AA375842, AA375767, AA494558, AI422731, W46965, AA969233, AI142954, AI161089, AI167233, AA737756, AI681576, AA449149, AL049415, A61271, and A61272.
HDTBQ34	1963	703446	1 - 453	15 - 467	AA625147, AL044429, N95514, AI521188, M78692, AA083339, AA625350, AA916868, R46588, and AA935301.

HDTBQ47	1964	720298	1 - 369	15 - 383	AI933595.
HDTBQ56	1965	799840	1 - 1310	15 - 1324	AI384076, N21097, AI167276, AI275519, AA495978, AW103498, AA235681, AI224882, AI565119, N31109, AI797229, AW130630, AA425033, AA490486, AI635704, AA463747, AA766927, AA631521, AA829333, AA490708, AW188888, H11440, AI873833, and AA236876.
HDTBQ80	1966	775420	1 - 356	15 - 370	AA860394, AI659377, AI440260, AI479292, AA514684, AI499986, AI500523, AI539800, AI340519, AW082532, AL047344, AA641818, AI648699, AI915295, AI345415, AW148536, AL040011, AI625926, AI446511, AI287233, AI445256, AI952493, AL042515, AW198133, AI500061, AW151652, AI571442, AI470717, AI611738, AW055252, AI890907, AI686690, AW023871, AI453248, AI860027, AI872423, AI378123, AI678446, AI288305, AI571699, AW130930, R81679, AI500714, AI128239, AI874261, AW089844, AL038715, AI696603, AI095003, AA765198, AI559619, AI683395, AI824361, AW081866, AI630928, AI540354, AI624938, AI309306, AI633125, AI434969, AI783785, AI271796, AI417790, AI859991, AI799313, AI686565, AI620864, AI538885, AW129264, AA604875, AI568293, AI433994, AI539723, AI638644, AW020381, AA503384, AI572096, AI539690, AI061405, AI345688, AI635634, F35031, AL041150, AI863382, AI923989, AI690813, AI524179, AI554301, AI917428, AI623736, AI432040, AI699020, AI440238, AW151136, AW022636, AI866465, AI570861, AI589428, AW021189, AA575922, AI620056, AW163554, AI680221, N22276, AI565172, AI862043, AI950729, AI631216, AI174799, AA731184, AW075382, AI658566, AI348854, AI499335, AI623396, AI683173, AI866458, AI241741, AI648454, AW166937, AI590043, F34241, AI554283, AW083750, AW105613, AW193620, AW262491, AI439452, AI613314, AI499104, AI702019, AI537273, AI801325, AJS73644, AW058341, AW151831, AI744243, AI340559, AI818562, AI312963, AI361701, AI865906, AW104641, AW088145, AJ291214, AI539080, AI917331, AI582871, AI436458, AI499581, AI274655, AL036548, AW167146, AI648494, AI621341, AI524654, AA808175, AI656270, AI679550, AI671429, AI698391, AI538564, AI818240, AL121564, AI915291, AW152182, AI538575, AI801064, AI582932, AI560545, AI619820, AI735654, AW021662, AW195253, AI434731, AI827058, AL120987, AI348901, AI539667, AI889189, AI811192, AI521560, AI521005, AI872545, AJ479577, AI079226, AI538764, AI473536, AI927233, AI539260, AI095192, AW151893, AA693444, AW196720, AI866469, AW161156, AI422855, AA502794, AI559752, AI884318, AI355779, AW238688, AI114703, AI370623, AI570056, AI815233, AI632036, AI537408, AW021717, AI566399, AI917252, W74529, AI918809, AI336586, AW080700, AI583484, AI797578, AW268306, AA579618, AW051453, AI701097, AI636507, AW090001, AI345612, AL043326, AI263331, AI472487, AF076464, AF139986, AL117575, AL117416, AL133665, I48978, I08319, AL137530, U62966, AF013214, AF162782, Z37987, AC007043, AL050024, S68736, AL032822, L31396, L31397, AL109672, A08916, Y13350, AL133075, X66366, X00474, S61953, L04849, AL080110, AF176651, E01614, E13364, A08910, AR050959, A08909, AF106862, AR038854, Y10655, D44497, AL049382, AF111851, AF118092, AF185614, AF182215, I89947, AF113694, AL117429,

HDTBR15	1967	660236	1 - 449	15 - 463	X63162, AL049452, AF090934, A08907, AL122049, A08908, X78627, AL050143, A08912, A08911, L04852, S36676, AL137271, AF124728, E06743, X99226, AF143957, AF016271, AF146568, AL050092, AL137550, S76508, AF100931, I48979, A08913, AL122093, AF124435, AF111849, AL023657, X83508, AL110199, A57389, A65340, AL137461, U58996, AL137284, AL117649, AF090903, Y14314, S82852, AL133112, D83032, AR022283, AF000167, AF067790, AF017437, A41579, A65336, AL117587, X89102, AL137281, AL137711, I26207, AL050155, AF116573, Z97214, S78214, AL137300, AL035458, S54890, AF111112, A08456, Y16258, Y16257, E02756, Y16256, A65341, AL080146, E03671, AB007812, AF017152, AF090900, AF184965, AF177401, AL137547, AJ010277, AL137488, AF030513, AL080129, AL133565, A21101, AL080118, A15345, E15582, X66862, I28326, AL110196, AL049464, AJ012755, AF132676, AF061836, I46765, AF076633, AF106697, AF112208, A03736, AL122121, I03321, AP000028, Z82022, X55446, AL117435, AR068466, AL049347, I89931, AF017790, E07108, S83440, AL136842, AL117440, X01775, AL049466, AF054831, U75604, S77771, I49625, S83456, AF113690, A18777, AF113677, A86558, AF047716, AL137256, E12579, E12580, AL133010, X65873, AF102578, AF081197, AF081195, I00734, E12747, AR029580, I79595, AF002985, AL117648, AL122110, AR020905, AL136884, A31057, AF175903, AL049339, AL133080, A77033, A77035, I33392, AL133640, AF141289, AL050277, AF183393, AL096744, AL110221, Y09972, E00617, E00778, AF139373, AF008439, Z35309, AL133623, A12522, I89934, E05822, AL049324, U02475, AF118090, E02349, M30514, AL050172, Z13966, AL137529, AF061795, AF151685, U73682, U49434, AF185576, AL080148, AL080126, AR034821, AF085809, Y00093, AL137476, AR053103, AL133558, AL133560, AL080124, AL133559, U54559, AL137258, and AJ238278.
HDTBR50	1968	846630	1 - 453	15 - 467	AI753313, AF004877, and AC002528.
HDTBV02	1969	920008	1 - 461	15 - 475	
HDTBV18	1970	893761	1 - 367	15 - 381	D25267, AA635901, AC005399, AC007227, AC004685, AL022316, AL080243, AC005324, AF064858, AC005305, AL021937, AF003626, AL049694, AC005330, U80017, AC005031, AC005874, AF134471, AC005920, AC004883, U07563, AC004938, Z98946, AL033527, AC007052, AL049631, AL022345, AC007263, AC004491, AC005571, AC005756, AC005726, AC006013, AL031597, AL033517, AC005409, AC003663, AC004253, AL049776, AC006014, AP000466, and AL049871.
HDTBW52	1971	726060	1 - 507	15 - 521	AC004056.
HDTBX47	1972	719530	1 - 424	15 - 438	AA868305, AI700890, AA789239, AI803004, AI694352, AA043382, F08474, R21498, AF112183,
HDTBY88	1973	934472	1 - 495	15 - 509	AF112184, and AC005354.
HDTCC60	1974	740350	1 - 390	15 - 404	AA864722, AA319763, AA248838, AA193325, AW367238, AI688661, AI921062, AW024122, and AW130404.

HDTDA45	1975							T97833, T97457, and R09338.
HDTDC23	1976	799875	1 - 697	675331	1 - 511	15 - 711	15 - 525	AI471572, AA502155, AA130647, AW402145, AA599063, AI192863, AL035587, AC005164, AC005562, AB003151, AL050332, Z83840, AC005261, AC004185, AP000509, D84394, AC002477, AC007917, AF111163, AL035653, AC005089, AC005829, AC000114, AC005512, AP000496, AC005399, AC006948, AC004076, AP000150, Z47046, AF031078, AF030876, AC004263, AP000009, Z98884, AC005498, Z98885, AF196970, AC006251, AC007228, AC005940, Z66162, AC004882, AL031650, AC004796, AL009181, AL049867, AC005520, AC007630, AL022069, AL031000, AL121655, AL117258, AL049829, AL024498, AC006137, AC003690, AP000215, AC007308, AC002470, AC006539, AC006057, AF207550, AL034129, Z82198, AC005822, AC003035, AC006538, AL008582, AL022318, AL031595, and AC006241.
HDTDC53	1977	916348	1 - 220			15 - 234		AI205597, AI018716, AA952883, T66939, W86676, AA122311, AI208307, AA843726, AI090686, AW243845, AA618005, R15455, C00676, AI476338, AA371098, AL119399, AL042382, AL079794, AL043152, AL119511, AI288285, AL119457, AI621341, AL043168, AL042544, AL041150, AI540674, AW029401, AL037562, AW168485, AL037602, AI095003, AL038529, AL037454, AI698391, T95813, AW023846, AL036705, AI950664, AW083573, AI818358, AI638644, AL042191, AI963846, AA857847, AI679214, AA908294, AW264727, AI537677, AI538055, AW152182, AI915295, AI868740, AI589428, AW103628, AI866465, AI587000, AW051088, AI758512, AI564290, AI267162, AL079740, AI500061, AI434731, AW022636, N29277, AI553645, AI783792, AI590043, AW020397, AI571551, AI557238, AI678773, AI499570, AI872343, AL119324, AW162194, AL036249, AI802542, AI241901, AL119863, AW082088, AI147292, AW163834, AI683475, AI745329, AI609760, AI859991, AW021373, AI094749, AI345415, AI623941, AL046473, AI289791, AI567971, AI446704, AI280732, AI250627, AI610446, AI559752, AI312210, AA829061, AI249877, AL046595, AI472566, AI561356, AI612913, AL043355, AI538850, AL039086, AW023338, AA805434, AI620810, AW089275, AI813633, AI568114, AI539800, AI309306, AW059713, AI267185, AI475371, AI355779, AI582932, AI682798, AI860673, AI524179, AL041996, AI280607, AI679211, AW161156, AI673363, AW020419, AI929108, AI583032, AI345688, AL040449, AI634919, AL045266, AI680270, AI342023, AI590686, AI536685, AI783997, AI471429, AI866780, AI401697, AI801325, AL046466, AI884318, AI796743, AI433968, AW128841, AI860652, AW104683, AI589004, AI679506, AI699823, AW024374, AA975952, AI367680, AA503384, AI288050, AW105431, AI354998, AW129616, AW008226, AI573060, AI242248, AI565172, AI610293, AI655932, AI953767, AI567846, AL135065, AW128834, AW132071, AI524654, AA831948, AI683173, AW008166, AW024275, AI110603, AI589134, AA766104, AI624529, AW050578, AW088899, AI469505, AL118781, AI635492, AI890391, AI923989, AI284517, AI368579, AI678599, AI932458, AI274507, AA479803, AI811840, AI864102, AI917963, AI538764, AW193872, AI824576, AW163554, AI538637, AI625701, AI366922, AI627604,

HDTDD49	1978	799872	1 - 448	15 - 462	AI251221, AW403717, AI371251, AI270295, AI478902, AI432644, AAS80663, AW148536, AI422688, AW088560, AI921092, AW151136, AL040011, AW008353, AI288305, AI676003, AA641818, AI540458, AI468872, AL048323, AA808175, AI567582, AW132001, AI446373, AL048340, AI648458, AI281757, AL047675, AL119791, AI252077, AI889189, AI932794, AW021717, N71180, AW029186, AW129264, AW073907, AI343091, AI633061, AA768046, AI335363, Y11587, U77594, U35846, AL137480, AF132676, AF061836, AF030513, I48978, AL049347, AF047716, AF026816, U67328, AL133075, AL133113, Z97214, I89947, AL133637, AF097996, AL122098, AF017152, AF146568, AR034821, A65341, AL133049, S83440, AR068753, AB016226, AL137271, AF118092, AL137554, A93350, A08910, A08909, A65340, A08913, AF102578, S61953, A08908, AR020905, AL133067, AL137557, A77033, A77035, I33392, U95114, A08912, U37359, I09499, AF177401, AR038854, AL133072, E02221, S77771, AL023657, AL137550, AF106862, AI8777, E12747, X63162, S76508, AB029065, A21103, AF126247, AF067728, U49434, AF104032, A08916, AF113689, E05822, X98834, I79595, AF002985, I18355, AL117587, AL050172, AL110296, AL133557, X92070, A08911, I34392, AL110218, A08907, AL122110, AL117463, AL110197, M96857, Z37987, AL122100, AL137533, S53987, AL080148, AJ005690, AR053103, AL137523, I48979, AJ238278, U87620, S69510, Y14314, Y07905, I89931, AL136884, AL080159, AF183393, AFI11849, I89934, AL110225, AF061981, AF139986, X72889, I49625, AF106945, AF145233, AL049339, Y10823, AF087943, AL080140, I42402, Z82022, U55017, X67688, AB007812, M27260, AL137547, AJ010277, AL122093, AF008439, U49908, AL133560, L04504, E01314, AL137526, AF113677, AJ000937, DS9079, I32738, AF106657, M92439, AL133665, L04849, AL137488, AL133112, AF182215, A23630, I00734, A76335, AR029490, AF195092, AF180525, AL137286, Y11254, AL122104, AL137530, AL080154, A15345, X98066, AF067790, AF031903, AL137574, E00617, E00717, E00778, AL137294, X72387, I26207, AJ242859, X84990, AL137574, E00617, E00717, E00778, AL137294, X72387, AL137521, AL122121, X83508, AC003032, U75932, AR013797, X82434, S36676, X79812, X87582, Y10936, AL049430, AL049460, AF107847, AL122106, AF017790, X55446, AL137711, AF185576, AL110224, D16301, X81464, AL117648, U54559, AL050277, Y13350, AF026124, AF205861, I03321, AI8788, AC004227, Y10655, S75997, AF162270, X66862, AF215669, I33391, AL133640, AF111851, X52128, AL117460, I17544, AL137256, AL122118, AF090901, A03736, AL137292, I68732, AF113691, L13297, AF111112, D83989, AF113694, Y10080, AL110222, AF036941, AL137640, X83544, Z72491, AF210052, AL117583, AF031147, AL137459, X06146, E07108, AF090903, AL050116, AF058921, U00686, AF040751, AL110228, AB030279, AF057300, AJ012755, AF057299, AL137479, AC002467, AL050170, AL080124, and AF169154.
HDTDG42	1979	713588	1 - 445	15 - 459	AA218835, AA719073, AW270451, AC001226, AC000117, AC006262, Z81313, AL079295, AC004491, AL033527, AC002351, AC004381, AC006146, AL133245, AC002994, AL031594, AC005180, AC004929, AC004821, AC004821, AC005829, AC005952, Z80232, AF196970, AC002563,

Clone	No.	Seq ID	Range 1	Range 2	Accessions
					AL049836, AC005585, AC008372, AP000201, AL049776, AC007225, AL031283, AF207550, AC005578, AP000097, AL080242, Z83344, AC004703, AF001550, AC005837, AL009181, AC005781, AP000043, AP000111, AC005089, AC007283, and AF050154.
HDTDG70	1980	587730	1-418	15-432	AL022396.
HDTDL88	1981	868565	1-707	15-721	AII40351, AI859347, AA121548, AA987515, AA100477, AW193146, W04309, N21020, H94056, AA043186, AA844332, N21328, N47889, AI952434, AA975893, AA045598, H80956, AI354682, AI187288, AI859814, AW089493, AA530873, AW275917, AI025466, N92869, AA768339, AA621534, AI567303, AA828283, AI289086, AA729835, AI564973, AA580315, AI952495, AA417265, T40562, AI289415, AI039892, AI014387, AA917482, AW088039, AA587755, AI419448, AI371694, AI018462, AW377665, AI083853, AW103201, AA868207, HS1296, AW190165, AI833059, AI288157, D12288, R63140, AI942324, AI873582, AI699667, AI091426, AI920875, AW406948, D12293, AA074395, AA342276, AI955989, T91580, AI350331, AA127712, AW138496, AA342277, AI832968, AW084334, T91268, AI816957, D12294, AA053266, AW138496, R83013, AI868829, AI220723, AI202414, AI908913, AA353671, T98269, AI908912, AW351513, R83013, AI866230, AA807562, C75247, AI144388, AW377656, W22908, AW381854, AI193223, AI866230, AI864799, AI802279, T91628, N74141, AI310801, AA788629, AI815642, AA370966, AW381856, AI864799, AA894373, AA314322, AL122042, and AC007842. AI417302,
HDTDP37	1982	571417	1-513	15-527	T12054, and T12053.
HDTDT33	1983	587773	1-541	15-555	AI365424, AA761247, AI270301, AA903663, AA461365, AI124751, AI493506, AA946682, AI739428, AI990438, AI312115, AJ927988, AI638765, AI830148, AI739606, AI561007, AI934691, AF165522, and X56389.
HDTEI19	1984	912765	1-399	15-413	AL035965, and AC006501.
HDTEJ30	1985	915445	1-475	15-489	AW340512, AI807894, AW082409, AW054749, and R94399.
HDTEN69	1986	650840	1-618	15-632	W92422, and AA013353.
HDTES50	1987	964709	1-423	15-437	T86673, AW190189, and AI193121.
HDTFC55	1988	731397	1-560	15-574	R80296, AW235653, AI949101, AA470449, AC002044, AC005234, X54171, AP000348, AC006230, AC007129, AC005274, and AC004230.
HDTFD13	1989	835596	1-429	15-443	AI765425.
HDTFE23	1990	675407	1-360	15-374	
HDTFI53	1991	738221	1-108	15-122	
HDTFP51	1992	924898	1-491	15-505	
HDTFQ26	1993	681234	1-605	15-619	
HDTGE59	1994	893721	1-213	15-227	
HDTGI15	1995	953336	1-641	15-655	
HDTGJ03	1996	923452	1-615	15-629	

HDTGJ64	1997	799860	1 - 133	15 - 147	
HDTGK27	1998	682689	1 - 416	15 - 430	AA489578.
HDTGP34	1999	855739	1 - 562	15 - 576	R69491.
HDTGP93	2000	724545	1 - 227	15 - 241	
HDTGW21	2001	785047	1 - 369	15 - 383	AB007857.
HDTGW52	2002	726197	1 - 100	15 - 114	
HDTHA89	2003	838813	1 - 345	15 - 359	AA745404, N23046, AI057391, AA001345, AC003101, AC004526, AL031670, AC009721, AL109748, AC004256, AC004090, AP000152, AP000010, AL021155, AL022330, AC005007, AL023584, AP000546, AC005969, AC003086, AC000379, AL023553, AC006543, AC007283, and AC006011.
HDTHB41	2004	711849	1 - 475	15 - 489	AR035806.
HDTHE95	2005	795180	1 - 494	15 - 508	AA847163.
HDTHK91	2006	789790	1 - 616	15 - 630	AC004611, AC005551, AL096701, Z97054, AC003101, AC005529, AC003101, AC005011, AF053356, AC004813, AC006965, AC004985, AC004167, AC002375, AC002565, AC005874, AF134471, AP000036, Z83844, AC003684, AC005622, AL132987, AC005837, AC005102, and AL049780.
HDTHM43	2007	851854	1 - 483	15 - 497	
HDTHC45	2008	799861	1 - 163	15 - 177	AW089395, AI053518, AI345012, AI358008, AA837739, AA664248, AA610530, AW238137, AA837796, AA993165, AW238250, AA084950, N70293, AA599749, AL047254, AA594220, T05354, AI124706, AW161966, AA001398, AI683742, AA666066, AW440424, AI223626, AA583579, AW130446, AA583568, AI568849, AI274006, AI921692, AI567831, AI445768, AA586553, D25667, AI889648, AI613487, AI336206, AA654038, AA658918, AA047045, AI572680, AI884861, AL118567, AA774119, AW021519, AA649660, F03603, AI375036, AI083707, AI246061, AA599080, AA832124, AA832152, AA470958, H86399, H47461, AI205346, AL134332, AA224525, AL036070, AI054090, AI761566, AI114645, AI872117, AI744381, AI249853, AI284543, AI254770, AI251944, AI251034, AI251203, AI251284, AI250552, AA304790, AA078088, AA295893, AA295899, H77666, AW149972, AA564682, AA593388, AI354341, AW327597, AA468289, AA911520, AI732682, AI869786, AI922583, AA347653, AA780648, AI521042, AW327555, AA167179, AI912505, AA078509, AA742775, H37892, AC002073, AL031284, AC004895, AC002347, AB020863, AL023880, AL049543, AL137474, AP000959, AC004522, AC007387, AC005274, AC004131, AC004859, AC005519, AF061032, AF003626, AP001052, AC005664, AC008134, Z98751, AC005924, AC004837, AC000097, AL031663, AC006547, AC002351, AC000025, AC005527, AL034555, AC004150, AC000379, AC002049, AC002054, AL117328, AL021332, AC004701, AC002472, AP000550, AC007664, AC008018, AC005358, AL133216, AL080243, AL035457, AL049569, AC006211, AL020997, AC007227, AC000083, AL031287, AL031775, AL033517, AL021878, AC004686, AP000346, AC002312, AC007695, AC004778, AC005800, AL031848, AC006210.

Clone	No.	ID	Range 1	Accession Numbers	Range 2
HDTHQ15	2009	923899	1 - 599	Z92542, AL050332, AC007637, AP000355, U77080, U77078, AC008042, AL049829, AC004181, AC002299, AC005695, AL049695, AF104934, AC005017, AP000555, AL022318, Z85996, AC002091, AP000350, AC004149, Z97030, Z68323, AF117829, AC005005, AC003042, AL034379, AL034417, AC005375, AL079342, AC003693, AC006449, AJ006345, AC005562, AL117338, AC002331, AL099031, AC004448, AL099982, Z93020, AL132987, AC003108, AB026899, AC009263, AP000352, AC004953, AC005723, AL049779, AC005952, AC005086, AP000260, AP000099, AP001065, AL034369, Z83840, AP000036, AC022517, AC007226, AC004083, AC006115, AC007376, L44140, AF049895, AC005531, AL031667, AC005186, AC004106, AC005903, AP000068, AC005865, AC004955, AC005247, U91318, AC005189, AL049844, AC005480, AL109798, AC004381, AC006160, AC002991, U15422, AL121652, AD000812, AC003110, AC004017, AC007746, AC002126, Z99127, AL035416, Z98941, AC006120, AC005740, AL049781, AC002368, AC007240, AF001550, Z98742, AC002128, AC00767b, AC007919, AL078639, AL031433, AC006088, AL121923, AL135744, AL031282, U47924, AL022238, AC002551, AL024494, AF051976, X77825, U77079, U77081, AC005049, AL050306, AL049697, AC007371, AL031685, AC007386, AL008582, AC005913, AL022302, AJ229041, AC005730, AC007684, AC001644, AL096703, AC006959, AL031588, AL031056, AC007444, AL121877, U96629, AC006312, AP000500, AC005694, AC007056, AP000353, AF071746, AC006950, and AC002404.	15 - 613
HDTHQ55	2010	799859	1 - 417	AA215544, AA262119, D87446, and AF060565.	15 - 431
HDTHW16	2011	799839	1 - 623		15 - 637
HDTHZ46	2012	957669	1 - 362	H59787, AA911636, AA631183, AI025526, AI923762, AI740793, AA743390, AI202128, AI660488, H82705, and AI368872.	15 - 376
HDTIB38	2013	971665	1 - 922	AI872294, AW207586, AW195605, AI693146, AW075561, AW068887, AA993676, AI758241, AI799473, AI031659, AI419921, AA961774, AI355364, AI190742, AW451406, AA598664, AA603695, AW057857, AI807320, AI510700, N50786, AA737532, AA766363, R68978, AI124003, AI445187, AW102731, H04784, AI122873, R69607, AI253794, AA897328, AA598571, AI540516, D19777, AI267421, N55144, H04882, AA334830, and AL135745.	15 - 936
HDTIC48	2014	828038	1 - 406	H82510.	15 - 420
HDTIC74	2015	838780	1 - 536	AA084725, AA189117, AL048925, AI801482, AI284640, AL046409, AI963720, AL042753, AA127353, AI679782, AI270117, AW406755, H71429, AI334443, AW419262, AW072587, AI431303, AI570261, AI133164, AW276827, AI368745, AA490183, AW19326S, AI613280, AW302013, AL119691, AI364020, F36273, AA610491, AL043719, AW303196, AI281881, AI350211, AA523810, AW261871, AI858451, AI434695, AI358229, AA581903, AW301350, AI061143, AI567076, AI754336, AW327868, AI240168, AI143242, AI341664, AA984708, AW088846, AA538852, AA503473, AA649542, AA649484, AA491814, AI365988, AA578481, AL138265, AI471543, AA577906, AI061334, AW265393, AA680243, AW270270, AW274349,	15 - 550

AA665021, AI732120, AL042853, AAS21399, AI375710, AI754658, AL138455, AW410400, AW265385, AW407578, AW270716, AA466657, AW341900, AI718446, AI571512, AI289067, AW148792, F16127, AI355206, N27584, AA846929, AW438643, AA455483, AI688846, AI379719, AA402129, AI053672, AW163293, AA177061, AI110770, AAS84082, AA488746, AA613232, AA828042, AW301809, F29989, AI298710, AW023672, AA877817, AW193432, AA649722, AAS87604, AA720702, AI669453, AAS21323, AI345654, AA132914, AI962050, AA493219, AI619997, AAS57918, AI192631, AA878409, AW300625, AL038474, AW406447, AA806796, AI471481, AI148277, AI801591, C05755, AW162489, AI635818, AA468022, AI017415, AA470969, AA084070, AI696962, AW169537, AA630362, AAS26779, AI633025, AI151261, AI871722, AI246119, AL044940, AL119984, AIS61255, AAS15829, AAS07824, AI955323, AI358501, AAS25824, AA649642, C06339, AI307608, W79504, AAS99920, AA126051, AA126035, AW021207, AA610493, AA846935, AI287485, H13757, AL041690, AW265009, H72402, AA126450, AI921296, AA491284, AA682912, AIS59742, AW103758, AA973803, AI610159, AI623720, AL137954, AI653886, AA613345, AAS46907, AA601876, AA721056, AW089322, AW238278, AA613227, AW276817, AI076766, AA857486, AAS03119, AAS86458, AA623002, AI344844, AI744995, AL046205, AI921061, AA601253, AI358812, AAS87256, AA679514, AA837718, AI635274, AL120687, AW073470, AC007421, AF001549, AP000134, AP000212, AC008134, AP000251, AL049776, AP000030, AC008040, D87675, AL132777, AC006948, AC007385, AC005089, AC004605, AC004263, AL132718, AC006026, AC000387, U11309, Z49258, AC004890, AC008372, AC007191, AF030876, AC006011, D83989, AL133245, AF015148, AF031078, AC005988, AC006116, AC002468, U18394, AC005037, X54175, AC007216, U57009, AC005225, AF015156, AC005988, AC006116, AC002468, U18394, AC005041, AL031228, AC006111, AC004593, AL021808, AC006042, AL049539, AC005846, Z83826, U95742, AC004816, U80017, AC005372, AC004057, U18391, AC007455, AC005288, Z98051, AP000959, AC006479, AF152365, IS1997, AC005335, Z82244, U67221, AL022163, AC003693, AL008715, Z99716, AL096701, AC007364, AC005015, AC005678, AL009172, U18396, AL034549, AL132712, AF131217, X54180, AF107885, AC006254, AP000568, AL078581, AF129756, AF017104, AP000126, AP000204, AC004966, U85195, AL031427, X54178, AL121603, AC008123, AC004491, XS5926, AC005837, AC008045, AC005585, AL031347, AC007666, AC004859, AL035422, AL049761, AC004615, AP000142, AC006064, Z94055, AC006157, X54181, AP000557, AL031577, AC003691, AE000658, AL096703, AC007308, AL008627, AF015152, AF109907, AC010170, AL049760, AC006313, U57007, AC007617, AC005808, AJ006345, AL022476, AL121934, AC007537, AC006997, AC007298, AF124523, AC005778, AL023575, AP001038, AF045555, AC005004, AC005180, AC007277, AC008039, AC005620, Z85999, AC004531, U18393, AC00011S, AL121655, AP000244, U57005, AL049557, AC006965, AC006597, AC005215, AC007227, AC005324, AC005019, AL023656, AC006484, AC005632, AL049795, AC005829, AL035252, AC002377, AC005399, AC003956, AC007387, AF088219,

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HDTID61	2016	908946	1-730	15-744	AW439565, AI827530, AI887525, AI890158, AI859703, AW118200, AA749212, AA430563, AA883993, AA029288, AI095763, AA043743, H03766, AI598263, AI634574, AI079917, AW243702, AA452390, AI634584, AA132531, AI610785, N51151, AA602187, AA971019, AI926025, AI279436, AI220990, AA888601, AW131171, AA969116, AI818902, H02869, AA579993, AA621433, AI922025, AA369249, AI469540, AA021150, AI300047, H88995, N47896, R70915, AA043742, AA912768, AI926028, AA937998, AA029756, AA834867, AI183313, AA342184, AI873839, AA433979, AA167094, AI017196, AA866089, AA993239, AW371991, AA028917, AI926057, AA911119, H88778, AA283401, and AA283400.
HDTIF01	2017	883070	1-515	15-529	AA938105, R98945, AI110760, AL119762, AL041013, AI114869, AW075511, AW102811, AA806796, AA070456, AI133516, AI061646, AA767276, AA524821, T74382, AI313166, AA219225, AA224525, AA601348, AI093030, AA083046, AA502104, AA531580, AA836811, AA081825, T40308, AW151713, AA601294, AW440545, AA846568, AL046586, AW274346, AW161966, AA765736, AL138254, AA774222, AW245747, AA468456, AA377927, AA774780, T56253, N70044, R70821, AW407632, AI471603, AA806799, AI499134, R80876, AI826263, AA614180, AA634889, H46122, D82542, AA664909, AI345654, AI708009, H40936, AA483929, AW103758, AI305766, AI284640, AW168453, AA121894, AL035659, AL121603, AC002470, AC004167, AL031846, AL035420, AC005412, AC007021, AC005280, AL096774, AC003043, AC006084, AC004738, AC007731, AL049780, AC005531, AL031767, AC007055, Z83819, AC004149, AC002301, AL080243, AC004150, AC005500, AP000553, AC002072, AC009516, AL034549, AC004263, AL139054, AC004019, AC006285, AC004675, AC004859, AL049758, AC005084, AL022721, AL035587, AC005411, AC006694, AP000966, AF088219, AC007216, AL022165, AC022165, AC003108, AC006042, AP000555, U80017, AC000026, U85195, AC006241, AL031447, AC004216, Z95118, AC009044, AL031577, AC005031, AC005670, AC005089, AC000087, AC004797, AC005666, AC005003, AC005911, AC007057, AL022316, AL022316, AC006146, AP000133, AP000211, L44140, AL117347, AE000658, AC002059, AC004765, AC002476, AC005089,

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HDTIF90	2018	787413	1-490	15-504	AC020663, AL121652, AC002456, AC006530, AC005479, AF067844, AC003101, AC004099, AC005920, AF109907, Z81364, AL031680, AC005527, AL022238, AC005104, Z98051, AL049636, AF001549, AL009179, AC006441, AC004210, AC012384, AC004820, AL023575, AC002565, AC005081, AC003029, AL096712, AC003003, AC007226, AC007240, AC003690, AC002465, AC004990, AL121595, AL133371, AC002991, AL049759, AB023051, AC006211, AC005562, AC005075, AC005839, AC002310, AC007681, AL031685, AP000257, AC005150, U91322, AC007114, AF010238, U47924, AC005158, AL020995, AC005516, AF039907, U95742, AC005783, AC006026, AL133163, AC000025, AC007676, AL080317, Z99716, AC005037, AC005180, AC005913, AC005179, AC002067, AC005071, AC005620, AC008079, AC004890, AP000210, AP000132, AL049776, Z94721, AC006205, AC002368, AC006538, AC006450, AC004835, AC005529, AJ011930, AC004999, AC004913, Z95114, AC007193, AL109865, Z83822, AP000512, AP000098, AC005360, AC007050, U95740, AL022476, AL132777, AC007842, AF172277, AP000098, AC004878, AL034420, AL008725, AP000116, AL121655, AC005015, AC006271, AC004098, AL031681, Z86090, AC004970, AF024533, AL008718, AC006365, Z93017, AL022326, AC007160, AL031666, AC006126, AC004690, AC007685, AL049766, AC005207, AJ246003, AC004525, AC004681, AL050318, AC006459, Z82244, AC002070, AC007151, Z98200, AC003065, Z93930, AC005902, AF121781, AC005829, AC005067, AP000354, AL022163, AC005815, U52112, AL049709, AC004814, AC005776, AC008417, AL031284, AL022163, AC004477, AL023494, AC005701, AL049539, and AP000502. AL134148, AL119391, AP000356, AC004820, AR060471, AC005940, AC004253, AL035684, U29953, AP000212, AP000134, AC002287, AC005015, AC003043, AC005412, AC004672, AL117337, U91321, AC007425, AL035086, AF205588, AC004216, AC005179, AC004098, AC007676, AC005037, AP000349, AC016027, AC016830, AL133396, AP000252, and AL079306.
HDTIG34	2019	799851	1-417	15-431	
HDTIH43	2020	935643	1-536	15-550	
HDTIM13	2021	926952	1-439	15-453	AA437170.
HDTIR88	2022	931122	1-680	15-694	AI742572, AI819310, AI373601, AI458037, AI478168, AW243260, AW182412, AI628739, H96226, AA911198, AW237157, AA621899, AI963732, AA036662, AI699482, AA935821, and AI560638.
HDTIV22	2023	883109	1-398	15-412	AI110718, and AC006121.
HDTIV37	2024	799867	1-590	15-604	AA290838.
HDTIV62	2025	799835	1-639	15-653	AC003992.
HDTIW03	2026	922928	1-471	15-485	
HDTIX57	2027	799828	1-596	15-610	AI660431, AA705801, and AF112299.

HDTIY24	2028	799854	1 - 391	15 - 405	AW392670, Z99396, AL119484, AL134902, AL119457, AL119391, AL119363, AW372827, AL119497, AL119443, AW363220, AW384394, AI142132, AL142132, AL119319, AL119341, U46351, AL119324, U46346, U46350, U46347, U46349, AL119355, AL119444, AL119496, AL119483, U46341, AL119439, AL119418, AL119399, AL037205, AL119522, AL119401, AL134518, U46345, AL119396, AL134538, AL042965, AL042614, AL134525, AL134536, AL042970, AL042975, AL042984, AL042544, AL043019, AL043029, AL042542, AL042551, AL043003, AL119464, AB026436, AR054110, AR066494, A81671, AR060234, and AR069079.
HDTIY26	2029	799855	1 - 409	15 - 423	
HDTIY41	2030	799853	1 - 641	15 - 655	AA281844, AI284640, AA862227, AI133164, AI281465, AI471481, AI291124, AI282832, AI291268, AI341548, AL046409, AI266133, F36273, AA340747, AI298710, AW157005, AI341664, AI289067, AW193432, AI431303, AA491814, AI688846, AW439558, AA992126, AI358343, AA133986, AA582554, AI028510, AW276827, AW193265, AI536625, AW339568, AI061334, AI340453, AI761471, AW419262, AI350211, AW276435, AW166815, AA984187, AA284184, AI587583, AI587565, AI963720, AA865262, AI754658, AI613280, AL041706, AW274072, AI610159, AI079910, AI004591, AW008317, AI334443, AI569086, AW193609, AI801591, AI053672, AI358501, AA719805, AL040054, AII98376, AA649642, AI085719, AI830390, AF150152, AA350859, AI375710, AI814735, AI937850, H79308, AI143242, AI344844, AA347927, AI653886, AA669840, AA657835, AI619997, AW166611, AI832865, AI246996, AI460050, AW188976, AI049634, AI709365, AW276817, AA977743, AI246796, AL043578, AII93007, AW131457, AI371070, AW021917, AI285696, AA347930, AW410400, AI434695, AW302013, AW406447, AI590958, AA557686, AA713815, AI590772, AI884487, AW055226, AI589230, AI653515, AW341903, AW088058, AI676218, AL042753, AI379719, AA593471, AA121777, AW265385, AL048925, AC005324, AC004796, AC006125, AL135744, AC009516, AC005696, AL133245, AC005332, AC003663, AL049766, AC005913, AL132777, AC004987, AC005740, AF109907, AI022163, AC002402, AC004963, AC006597, AP000557, AD000092, AC005412, AL031667, AC006312, AC012627, AC005699, AC004534, AL008718, AC005180, AL031054, AC000353, AC007842, AL033376, AL021808, Z93930, AC010186, AC005725, AL049836, AC005598, AC005598, AC003684, AC004638, AL035420, AP000558, AC004675, AL035072, AP000959, Z95152, AC006126, AC005670, AC008249, AC004825, AF088219, D00591, AC005237, AC005531, AC004386, AC016831, AC005519, Z97184, AL050332, Z93017, Z98950, AC007793, AC006251, AC007637, AC005253, AC007151, AC02398, AP000216, AC005387, AL079340, AP000553, AC006050, AL078476, AC004876, AC005846, AP001053, AC004929, Z93241, AC006211, AC004858, AC008056, AC007191, AC005154, AP000692, AL049745, AP000047, AC007227, AC003119, AL132994, AF047825, AC006999, AC002307, AC005274, AC005071, AC004895, AL049830, AC009227, AP000115, AL031432, AC012085,

HDTIY69	2031	799857	1 - 493	15 - 507	AF053356, AF196972, AC002133, AC002404, AC004019, AC002404, AE000658, AC005755, AC005921, AL049557, AL109628, AL031228, AC005255, AL117330, AF077058, AL022322, AC000085, AC005244, AL049779, AC004999, AC006127, U78027, AB001523, AB023054, AF001549, Z82976, AC002310, D84394, AC007298, AP000253, AC005763, AC005060, AC004228, AL133371, AC007537, AC007536, AF139813, AC006277, AL023882, AF165147, AC007388, AL035422, AC006128, AP000114, AC007731, AC006195, AC005548, AC006571, AP000962, AC005907, AC004652, AL023575, AL031286, AP000548, AF196779, AP000338, U18398, AC002470, AC005209, AC005295, AC002543, AC002128, AC005799, AC002039, AC006511, AL035458, AC007091, AC005002, AC004955, D83989, AL008730, AL031319, AL132718, AC005815, AP000213, AC007685, AC005019, U85195, AC005632, AC007686, AP000135, X75535, AC002430, AL020995, AC003009, AL035665, Z81357, U80017, AC005969, AC004993, AL049759, S42653, AC004234, AC003670, AC007384, AC004972, AL035542, AC005695, Z84469, AC007488, AC002477, AL049647, AC004990, AC005899, AC004941, AL031848, AC000052, AC007226, AL136295, AC007043, AL034429, AF129756, AC007666, AC006449, AC007682, AC006023, AC002564, AL031666, AC005500, AC007934, AC005378, AP000031, AC005914, AC004099, AC004808, AC004206, AL031273, AF196969, AC007182, AC005839, AC005768, AC005562, AL049748, AC000067, AP000354, AL096775, AP000432, X54175, and AL110292.
HDTIZ244	2032	925574	1 - 388	15 - 402	AA736584, AW075941, AI803986, AW075748, AA480329, AA749202, AA804593, AI214324, AA907245, AA905861, AA806181, AI825149, AI479015, AI766668, AI312426, AI334900, AI334929, AI250558, AI334885, AI379810, AI307204, AI309438, AI340732, AI349156, AI334899, AI271248, AI307713, AI224312, AI307488, AI223564, AI053668, AI223777, AI340417, AI349701, AI349296, AL134999, AI926593, AL040620, AI696583, AL039086, AI474093, AA648441, AI250646, F37409, AI633061, AI500658, AI918424, AA768725, AW169654, AI587489, AI421149, AW020619, AI249375, AI702527, AI866573, AW080157, AA776730, AI879377, AI421662, AW020381, AI638582, AC004687, AL133607, Y10080, L40386, AF067728, I42402, U76419, AL050393, AF107018, AF004162, AF013249, AF044221, AF105427, AF074604, AL117590, S69510, L24896, Z82022, A41575, AL137463, X98066, A83556, I29004, X66417, X60769, AL133608, Z49258, AF084644, AF084645, U80742, AL133049, AFI12208, AR012379, AL133557, AF199509, E13998, AF126372, AC005156, AL080124, and AF038847.
HDTIA54	2033	799856	1 - 66	15 - 80	
HDTIC51	2034	799850	1 - 313	15 - 327	
HDTII16	2035	918631	1 - 846	15 - 860	AW117866, and AA279393.
HDTIJ37	2036	799834	1 - 539	15 - 553	R33692.
HDTIJ02	2037	913787	1 - 163	15 - 177	

HDTJJ55	2038	856558	1-1012	15-1026	AI123328, AI761674, AI028395, AA883324, AI494492, AW340221, AI082842, AI739107, AI350566, and AI219506.
HDTJK81	2039	851897	1-574	15-588	AA631510, AA847102, AA570673, AA484892, N76216, T48723, F27015, AI683552, AI624551, AL044271, AF121178, AA558366, AI446205, AW270768, AW008074, AI814059, AI291037, AA603400, AA297195, AA968509, AW277174, AI636439, AA502110, F32248, AI620808, AL045298, AA535494, AA493840, H72688, AI245423, AA503144, N25079, AI890688, AI890102, AA835814, AW189550, AI889580, H85059, H71642, AI075876, C13996, AI469577, AC005529, AC007314, AC007676, AI000813, AC004882, AC002115, Z97055, AC008071, AC002465, AL078638, AC002302, AC006398, AC005332, AC006139, AC005690, AC004671, AC008012, AC004874, U91323, AL034423, AC007529, AC004862, AC002480, AC005235, Z83822, AL035361, AC004381, AC005183, U91319, AC003957, AP000282, AP000514, AC006064, AP000466, AP000108, AP000040, AC007425, AC000026, AC004616, AB020865, AC007450, AC005041, AF049895, AC002059, Z97876, AL033376, AC005018, AL034379, AL035089, AC004887, AL009181, AC005598, AC003976, AC006547, AC005049, U95740, AC004834, AL008718, AL008729, AC007011, Z84480, AL021707, AC004033, AL031728, AC002288, AC005011, AC005046, AP001054, Z99774, AC005409, AC006213, AC000072, AF001546, AC005701, AC000120, AC005243, AL122020, AC004551, L77569, AC004865, AL121653, AC005104, AL020995, AL034555, AL133445, AL132987, Z85999, AC004098, AC005004, AF001552, AC004808, AC002496, AC004963, AB001523, AC006359, AL035072, AP000030, AP000212, AP000134, AL117375, U89335, AL020989, AC009464, AF205588, AC009393, AL022162, AC007860, AC006013, AC004982, AC006430, AF227510, AL121754, AC009263, AC004073, AC006947, AC004594, AC004895, AC002563, AC006544, AL035633, AC005881, AC004216, AL021940, AC004542, AL021395, Z98200, AC007637, AF099810, AC003682, AC004694, AL031643, AL022328, Z84466, AC009225, AC007371, U52111, AL031904, AC006006, AP000088, AC004745, AC005971, AP000011, AP000153, AC007664, AL009179, Z81365, AC009743, AL031673, AC009247, AF019664, AC005086, AP000031, U91318, AL021877, AC005548, AJ004799, AC003106, AC004876, AL049778, AF047825, AL034343, K03021, Z85989, AF045450, and AP000152.
HDTJQ18	2040	805597	1-508	15-522	AC010196.
HDTJT70	2041	918563	1-1094	15-1108	AA399660, and AA397890.
HDTJU06	2042	934242	1-412	15-426	
HDTKP88	2043	799865	1-566	15-580	
HDTKQ14	2044	886936	1-541	15-555	AL023653, and AL049683.
HDTKS28	2045	885471	1-512	15-526	W07055, N98814, R19346, AA461032, ZZ0457, W93772, W77921, AF155739, and AL050171.
HDTKU06	2046	934269	1-722	15-736	AL037304, AI184565, and AC004492.
HDTKX89	2047	799829	1-690	15-704	
HDTKZ74	2048	799842	1-626	15-640	AC006378.

HDTLA08	2049	958307	1 - 480	15 - 494	AI299823, AA918074, AA134973, AA484892, AA878492, W60522, AA526413, AI150934, H86399, AL049539, AF129756, AC005800, AC004929, AL080243, AC002316, AC000353, AC005095, AC005971, AC006006, AC004216, AC002369, AC004491, AL020997, AF053356, AL096712, AC007685, AC005231, AL109938, AL132712, Z98946, AC007386, U96629, AL139054, AC005082, AL049569, AC004832, AC005529, AL024498, AL031591, AC011198, AL022320, AC006312, AC007684, AL035455, AL050308, Z84487, Y14768, Z97053, AC004858, AP000505, AC007057, AL049872, AC005207, Z93241, AC004882, AL121871, AC002395, AC002310, AC005899, AC005004, AF109907, AP000555, Z80897, AC002477, AL031297, AL109653, AL022396, AC005933, AC004025, AC004685, AC005332, AC005696, AL035494, AL033392, AC007283, AC007425, AF067844, AC005911, Z98742, AC004921, AC007536, Z82208, AC002985, AC020663, AL049712, AF134726, AC008067, AC002301, AL109627, AC003665, AL133216, AL132777, AL049760, AL021937, AC004531, AC007160, AC002347, AL009181, AC004448, AC004655, AF064861, AL031733, AC005566, AL109628, AC005694, U07000, AL034553, AC005837, AC002312, AC007707, AC005015, X03120, AL035681, Z98750, AL034429, AC004854, AF196779, AC005690, AC005924, AC006333, AC002126, AL021391, AC005740, Z98745, AC007324, AL031005, AL035587, AC002425, AF165926, AC007488, X01392, AL117258, AL031277, AC005261, AF045555, AC004036, AC005527, AC005224, AC005225, Z54246, AC007690, AJ010770, AC015853, AL136295, Z93023, AF111169, AC004013, AC006079, AC005041, AL031282, AC007014, AL049795, AC005678, J00098, AC002565, AC005211, AL121578, AF047825, AC005736, AL022324, AC006449, AL049589, AL135744, AP000350, AL031311, AL049869, AC002365, AC005049, AC005846, AC006576, AC006064, AL031657, AF207550, AP000557, AC005632, AC000379, AC006236, AL121603, AC004659, AL031283, AC004149, AC007226, U89337, AC006459, AP000358, AC004099, AP000251, AD000091, AC006251, AL096763, AC006538, Z97055, AC005081, AL049830, AF196969, AC005668, AC007240, AL035664, AC005821, AC005914, and AP000141.
HDTLA53	2050	851826	1 - 635	15 - 649	R54209, H04999, AA179219, M62122, AA143551, W24376, and AA376209.
HDTLB55	2051	905872	1 - 558	15 - 572	W27300.
HDTLD17	2052	908601	1 - 654	15 - 668	
HDTLH19	2053	959932	1 - 279	15 - 293	
HDTLK51	2054	851846	1 - 524	15 - 538	AI349849, AI590485, AI345695, AI345366, AI310873, AW168420, AA582073, AA605272, AI755214, AI754105, AA809546, AA829044, AA228349, AA953238, AA282820, AL042635, AI754567, AA515905, AA126450, AA748833, AA744018, AA244339, AA410828, AA828834, T11828, AC004832, U91326, U91321, AC004525, AC007708, AC005081, AC005015, AL049832, AC002544, AL022336, AC005089, AC002407, AC003982, AC006236, AC002351, AC007981, AC007324, AC006537, AP000130, AP000208, AC007325, AC005884, AC007879, AL021546, AL049780, AF001552, AL049539, AL121580, AC004858, AC006441, AC004848, AC004929.

HDTLN80	2055	805562	1 - 605	15 - 619	AC006261, AC006039, AL035659, AC005874, AF134471, AL109865, AC002402, AL035495, AC000029, AC007327, AL050318, AP000503, Z82190, AL031730, AC004820, AC006023, AC003350, AC008372, AC006948, AL035086, AC004494, AC004149, AL109628, AC008009, AP000550, AL035045, Z92542, Z84466, AF109907, AC007686, AC002302, AC005580, AC000117, AC005410, AL031680, AC005332, AC007899, AC008132, Z97056, AC004382, AC005324, AC006011, AC002477, AC005919, AP000513, AC009263, AC007676, AP000694, AF024533, AP000246, AF047825, AC004813, AC005952, AC002996, AF048729, AC007358, AC006316, U96629, AC002045, AC005841, AC007546, AC005538, AC006343, AL031594, AL133448, AL049636, AP000354, AC005569, AC012039, AC005482, AC005225, AC008018, AC005011, AC004675, AL009181, AL049569, AC012039, AC005482, AC005225, AC008018, AC005011, AC004675, AC004987, AF134726, AL021154, AP000350, AL049830, AC007367, AC007566, AL049869, AC008079, AL021707, AC005358, AL078477, AC002352, AC018633, AC006487, AC004972, Z86064, AC005412, AC004106, AC009248, D87675, Z93023, AC005228, Z95329, AL020997, AC005914, AL049793, AC007114, AL008718, AP000152, AL031313, AL049760, AF088219, AC007564, AC005368, AC003046, AC002511, AC004605, AL022165, AF029308, AC005666, AP000213, AC007055, AC003010, AC007488, AL121754, AB001523, AC005050, AC009363, AC005722, AB023048, AC004975, AP000031, AC002565, Z85986, AC004491, AC004801, AL133246, AP000135, and AC009288.
					AW372827, AW392670, AL042978, AL119443, AL037205, AW384394, U46341, AL119319, AL119497, U46351, AL119324, AL119457, Z99396, U46349, AL119341, AL119484, AL119391, AL042965, AL119496, U46350, U46347, AL119355, AL119363, AL119444, AI142132, AL119483, U46346, AL043205, AL119335, AL134524, AL119439, AL119401, AL134902, AL134528, AL119399, AL039851, AL119522, AL134525, AL119396, U46345, AL042850, AL119464, AL119418, AL134536, AL134538, AL042973, AL043003, AB026436, AR054110, AR066494, AI81671, AR060234, and AR069079.
HDTLP72	2056	799837	1 - 343	15 - 357	AP000224, and AP000086.
HDTLX24	2057	799838	1 - 615	15 - 629	AL049631.
HDTMG55	2058	959633	1 - 494	15 - 508	
HDTMH14	2059	799847	1 - 457	15 - 471	AF067844, and AF143316.
HEIAA07	2060	920257	1 - 300	15 - 314	AC003695, and AC002091.
HEIAA38	2061	907594	1 - 332	15 - 346	
HEIAB13	2062	677400	1 - 339	15 - 353	R32529, W95563, T85989, AA316471, AA046628, AA152270, T87538, AA150254, H67429, R68856, AW406467, T97847, H95214, H58974, H94342, R98261, T99568, T87539, and AI991836.
HEIAB27	2063	683474	1 - 313	15 - 327	AA768235, AA768974, AA767660, and AF033033.
HEIAB68	2064	721652	1 - 68	15 - 82	
HEIAC83	2065	920022	1 - 148	15 - 162	AI890971, AA323085, AA325999, R87547, AA196160, H04821, N83628, AA687084, AA502236,

HEIAD05	2066	932397	1 - 295	15 - 309	AA555085, AL134615, AI127133, AW439625, AI962973, AW439820, AI859849, AA683037, AI081241, AI052770, R69109, AA625787, R66922, AA744098, AI702364, AP000555, AL049563, Z86061, AL035417, AC007842, AC005043, AF001552, AC005233, AL109938, AF121782, AL034423, AC005180, AL031407, AC004682, AL031003, AC007052, AL050325, AC004931, AP000151, AL139054, D83253, AF064857, AC004955, AL031430, AP000009, AC005229, AL022328, and AC009396.
HEIAE05	2067	932390	1 - 211	15 - 225	AA659298.
HEIAE76	2068	577254	1 - 287	15 - 301	
HEIAG38	2069	577308	1 - 372	15 - 386	AI688963, AA308708, AW020449, AI914747, AA325521, AI537814, AI811076, AA658101, AA452879, N55560, AI261932, AI863180, AL044468, AI888705, AI755057, AA767864, AI801031, M85982, AI140609, AW079345, AI580252, AI111171, AI684349, AA668736, AA121818, AA227741, AI434725, AI188963, AA419521, AA406457, R71593, AA278573, AA078248, AI798234, R12683, AL078602, AC001556, AP000499, AC003665, AB026898, AL031428, AF008243, AC005081, AC005015, AC004167, AC008015, AP000160, AP000018, AC003950, AC004104, AC004787, Z54246, Z95331, AF001549, AL139054, AC005581, AL049745, AC001228, AP000555, AC007242, AC004990, AL133241, Z93244, AC002430, AP000553, AC005089, AL020997, AC007384, Z49862, AC007666, AC007277, AC000052, AC004019, AL132777, AL050317, AL022316, AC005513, AC005545, AL008716, AL024509, U82828, AC004876, AC004032, AC004143, AL031779, AC005409, AC008372, AC007011, Z68162, AC003966, AC004738, AC005670, AC004106, AC004967, AC004590, AP000556, AP000557, AB017335, AC004914, AC002301, AC004878, AL031277, AC018633, AC005781, Z84466, AC005666, AL031680, AL049636, AC000353, AC050318, AC006111, L34079, AC000404, AC004084, AP000167, AP000013, AP000155, AL050318, AC005837, AL023807, AC005562, AC008116, AJ006216, AC005325, AC005257, AP000171, AP000056, AP000124, AC004865, AP000330, AC004638, AC005325, AC007773, U91321, AC004752, AC005049, AC006344, 298941, AC004884, AL035413, AL109865, AF024533, AC002511, AC002996, AC005088, AC004985, AC010205, AC007376, AJ011930, AC005391, AC006241, 293784, AC003077, AP000067, AC005231, AL009181, AC005482, AC008639, Z85987, AC004777, AC005796, AF051976, AL117375, AL050327, AC004453, AC009320, AL008639, Z85987, AC007558, AL049709, AC005086, AP000432, AC006531, AC007546, AL049553, AC006536, AC004841, AL080317, AC007390, AC005914, AL031848, AC020663, and AF001551.
HEIAH70	2070	757174	1 - 330	15 - 344	AC006241, U47924, AL035400, and Z97053.
HEIAL53	2071	466308	1 - 420	15 - 434	
HEIAO01	2072	916438	1 - 290	15 - 304	
HEIAO14	2073	851197	1 - 398	15 - 412	AI445914, H81732, AI380617, AW008161, AI963183, AI813783, AI358542, AA501781, AA746939, AI380617, AW008161, AA837000, AA654874, AL038842, AA776651, AA745096.

HEIAO48	2074	917281	1 - 366	15 - 380	AI921348, AI683131, T98915, AW023515, AI345497, AI690497, H73550, AL041458, AI624421, AI459943, AP001053, AC007382, AC006455, AC004817, AC005746, U07562, U85195, AC002563, AE000658, AC005578, AC004167, AL078595, U91629, AC003037, AC010170, AL022163, Z86064, AC005355, AP000330, AC004620, Z69721, AC004854, AL031666, AC005391, AC005379, AL049692, AL035604, Z92845, AC002470, AC003108, AL109758, AL049874, AC005088, Z54146, AC002395, AC007199, AC005529, AC005412, AC006125, AC007308, AC005596, AC007110, AC004560, AC004887, AL034417, AP000699, AL022153, AL023913, AC004644, AC005913, U65896, AL035420, AC007151, AC004813, AC005393, AC004139, AL021154, AC003963, Z83845, AL096701, AC004132, AC005049, Z93017, AC006111, AC004492, AC003026, Z98050, AP000288, Z93023, AF102137, AF060568, Y10129, Z93244, AF030453, AC007002, AL133245, AL049811, AC004067, AF196779, AC006057, AC005037, AC005162, AL035455, AC006262, AL031846, AL031664, AL031286, AL021707, AC004125, AC006538, AL031311, U91321, AC005832, AC000039, AC002117, AC002302, AL096801, AC003109, AL135746, Z97053, AC005383, AP000283, AC007388, AC005387, AP000284, AC005070, AL031432, AC008033, and AC008015.
HEIAO51	2075	725649	1 - 210	15 - 224	AA353129, AC002310, AL031295, and AL009174.
HEIAT07	2076	953574	1 - 348	15 - 362	AL023096.
HEIAT36	2077	576598	1 - 497	15 - 511	AW293633, and D87470.
HEIAU68	2078	753000	1 - 211	15 - 225	AI610108, AW130937, AA829185, AW197946, AC004540, Z98751, and AC009496.
HEIAV20	2079	523766	1 - 346	15 - 360	AI633518.
HEICC82	2080	781171	1 - 371	15 - 385	AI910620, AC005520, AL031432, AC004876, AC008124, AC005871, AC005822, Z77249, AC004985, AL109758, AC000353, AC004084, AC002378, and AC006111.
HEOAB19	2081	939448	1 - 308	15 - 322	AW238796, AI446252, W47453, and AB011164.
HEOAD29	2082	690762	1 - 487	15 - 501	
HEOMC23	2083	850094	1 - 391	15 - 405	AW118893, AA448473, AI376031, AI911852, N51619, AA993690, AI818630, T15650, AI014894, AA452607, AA432010, AI968348, and R43403.
HEOME43	2084	967292	1 - 1957	15 - 1971	AL043294, AL045350, AI190043, AI553975, AL043295, AA837456, AI678979, AA610597, AW118951, AA916395, AI022758, AI809435, R46582, AI688011, R82289, AI909854, AA426089, AI540672, R21690, AA634501, AI286300, T96008, AA477176, AI589160, AI024524, AI866060, AI394226, and AW299557.
HEOMF61	2085	573059	1 - 431	15 - 445	
HEOMG01	2086	916672	1 - 490	15 - 504	AL035091.
HEOMG04	2087	922824	1 - 67	15 - 81	AC004884.
HEOMG16	2088	933969	1 - 464	15 - 478	AC004997, and AC005585.
HEOMG25	2089	678190	1 - 695	15 - 709	AI546993.

HEOMG32	2090	699343	1 - 410	15 - 424	AC005247.
HEOMG48	2091	963338	1 - 470	15 - 484	AW170594, AI632286, AA319071, AP000504, AF129756, and AF109905.
HEOMG78	2092	920911	1 - 831	15 - 845	AA206565, R98750, and R71112.
HEOMH04	2093	854342	1 - 1294	15 - 1308	AA878325, AI467795, H60658, AI142916, H59844, and R48574.
HEOMH31	2094	951834	1 - 589	15 - 603	AB011169.
HEOMH77	2095	721342	1 - 401	15 - 415	AA749137.
HEOMH89	2096	787109	1 - 358	15 - 372	AI768609, AA350845, AI140661, AW207100, AW382915, R85713, AI880236, H38087, AI984926, AI828532, and AJ245621.
HEOMK83	2097	918374	1 - 480	15 - 494	AB029488, and AC002536.
HEOML13	2098	893874	1 - 340	15 - 354	AC002425, and AC002544
HEOML73	2099	724043	1 - 405	15 - 419	
HEOMM10	2100	964736	1 - 364	15 - 378	
HEOMN02	2101	913819	1 - 548	15 - 562	
HEOMO43	2102	855659	1 - 412	15 - 426	
HEOMO57	2103	795128	1 - 472	15 - 486	
HEOMP31	2104	698087	1 - 364	15 - 378	H64717, and H65208.
HEOMP73	2105	750609	1 - 407	15 - 421	AL008628.
HEOMQ17	2106	851049	1 - 630	15 - 644	AA523718, AA565660, AL042630, H55927, AW117723, AW117704, AI287787, H74201, AA528557, H62615, AI914558, AA206036, AA348884, AI473501, AC006566, AC005837, AC003663, AC007016, AC008372, AC004193, AB023057, AP000520, AC007390, AC007189, AI239321, AL034350, AC002487, AC005668, AC006992, AC004653, AC005838, AC004079, AC005915, AF055066, AF054594, AF035666, AC007652, AP000008, Z79028, AC005823, AC004134, AL049697, AC005821, AC004531, and Z82198.
HEOMQ75	2107	965882	1 - 560	15 - 574	AL033522, AL137100, AC005089, AC005899, AC004031, AL080243, AC007707, Z82178, AC004686, AC005488, AC022517, AC006581, AL031662, AC005072, AC005529, U91323, AC004963, AL009181, AC002425, AL031659, AC004878, AC005722, AC004531, AC003101, Z84466, AC005015, AC004616, AC004966, AC005800, AF006752, Z84487, AC005996, AC002300, and AC005479.
HEOMQ80	2108	835599	1 - 431	15 - 445	
HEOMR13	2109	657317	1 - 657	15 - 671	AA136577, AI806102, AI806830, AW080440, AW130093, AA129563, AW402817, AW025074, AA101113, AA502991, AW148507, AA630672, AA837087, AW403644, AA127426, AA483108, AA809546, AW177794, AW177801, T77680, AI627614, AI611960, AI583255, AW328000, N23504, AI524360, AW128884, AW128900, AA634837, AA654661, T06917, AA455483, AI537458, H68017, N58329, AA633762, AI002744, AL037052, AA326139, AA552955, AA402129, H25921, AA331301, AI907530, AI086646, AA487872, AA845659, AA380354, AI656774, AL119600, AA773463, AA847095, AW250026, AA551181, AA629872,

HEOMR57	2110	575739	1 - 298	15 - 312	AA092571, AW081303, H82185, AA345064, AA663512, AL046402, AA769429, AL045954, AA070345, AA828637, AA493136, AI638635, N71685, AA847096, AI798493, AA370455, H12383, AA807583, T47084, AW270258, H93097, AW168520, AL009182, AC007461, AC004963, AL034401, AC004655, AC005191, AL031033, AC005602, Z82214, U15177, Z98036, U81031, AC000028, AC002070, AL049778, AL122021, AC007381, AC005796, AC006323, AC009044, AC006057, AL049540, AF165142, Z93241, AL080285, AL121877, AC002527, AL008719, AC006312, AC004497, AC002106, AC004036, AC005207, AC005949, AC006125, AC005626, AC005955, AC005756, AP000096, AL035701, AP000240, AF069291, AF015262, AJ229041, Z83844, AC000029, Z83822, AL050338, Z98752, AF200465, AC007057, AL049872, AR036572, U91328, AL021397, AC002073, AC007226, AL035089, AC005730, AP000362, AL031297, AC004000, AL021154, L78810, AL121782, AC005377, AL021546, AC006552, AC005214, AC006365, AL133353, AC005011, AL022721, AC004612, Z69719, AC007774, AL049576, AC004548, AL035460, AL031667, AC004098, AP000967, AL049569, AC003101, AL031186, Z69917, Z82976, AL035681, AF017115, AL033376, AC005245, AC005366, AP000563, AL021330, AC006039, AP000246, AP000211, AP000133, AP000208, AP000130, AL049539, Z86061, AC004525, Z94721, Z84487, AC005726, AC005529, AC004966, Z69925, AC002288, AC007205, AL008637, AL031597, AC002299, M63796, AC006958, Z98744, AC005476, AL023553, AL078639, AC007227, AC006273, Z81364, AC006958, Z98744, U91321, AF002991, AL049861, AF064858, AC006165, AC000070, AF049895, AL033527, U91321, AF002991, AC004152, AC007191, AL133163, AC006515, AC004522, AL022158, Z98946, AC010170, AC009330, AC005081, AL031311, AL131311, AC005578, AC005838, AL121591, AC004531, AC005682, AC004685, U71218, Z81000, AC006930, AC005578, AC005578, AC005838, AL121591, AC004707, Z97056, AL110502, AC006487, AC004999, AC006013, AC006950, AC005952, AP000255, AC004814, AP000213, AL096763, AC004070, AP000055, AP000031, U91326, AL022318, AC006313, AB023051, AC004644, AP000251, AP000030, AP000134, AP000212, AC004542, AL132642, M87914, AL008723, AC005500, AC004821, AL031985, AF135025, AF084941, AF052685, and D86992.
HEOMR92	2111	963130	1 - 397	15 - 411	AF150377.
HEOMR96	2112	855652	1 - 646	15 - 660	
HEOMS08	2113	959581	1 - 193	15 - 207	
HEOMS65	2114	969184	1 - 474	15 - 488	AA355836.
HEOMS85	2115	662928	1 - 400	15 - 414	AC003695, and AC002091.
HEOMS92	2116	735720	1 - 341	15 - 355	AI377718, AA810404, AA810193, AI919569, and AA732716.
HEOMT38	2117	850980	1 - 433	15 - 447	AA281379, and AA805453.
HEOMT79	2118	936687	1 - 502	15 - 516	T87253, U73628, and AC002554.
HEOMU07	2119	953475	1 - 244	15 - 258	AC012085.
HEOMU23	2120	675971	1 - 374	15 - 388	R25873, AA730123, AI979259, AI982610, AI985694, AW130285, AL022067, and U08185.

HEOMU79	2121	965900	1 - 543	15 - 557	
HEOMV11	2122	847274	1 - 282	15 - 296	AL048427, AL119511, AW151974, AI434242, AI538850, AI538835, AI872423, AI690472, AI445620, AW058275, AI866469, AI500714, AI859991, AI860003, AI432644, AI440260, AI537677, AI494201, AI804505, AI500659, AI815239, AI866465, AI815232, AI801325, AI866691, AI500523, AI887775, AI582932, AI923989, AI284517, AI590043, AI500706, AI445237, AI491776, AI926593, AI289791, AW151138, AI889189, AI521560, AI500662, AI285417, AI539800, AW172723, AI582912, AI284509, AJ889168, AI440263, AI927233, AI866573, AI633493, AI434256, AI805769, AI888661, AI952433, AI284513, AI888118, AI285439, AI436429, AI889147, AI623736, AI355779, AI581033, AI371228, AI491710, AI440252, AI431307, AI282249, AI440238, AI567971, AI866786, AI610557, AI431316, AI242736, AI539260, AI828574, AI887499, AI539781, AI431238, AW081122, AI702065, AI539707, AI885949, AW089557, AI559957, AI285419, AI521571, AI469775, AI866581, AW074057, AI815150, AI567953, AI446495, AW151979, AI867068, AI225248, AI358271, AW151132, AI698352, AW022636, AI890907, AI225000, AI371229, AI431323, AA477608, AL042365, AW169213, AI538881, AW079432, AI923061, AI687614, AW194509, AL047422. AI539771, AI891102, AI879377, AL047398, AI866458, AI469764, AI371251, AI866510, AI623302, AW081133, AI538764, AI866461, AW151136, AI923046, AL043152, AI554485, AI887785, AW130168, AL043168, AI0498559, AL041862, AA651819, AI561170, AL048403, AI690946, AI589191, AI648567, AL042686, AL046356, AI433157, AI610426, AI554821, AL045500, AI589947, AW129310, AI819663, AA729782, AL119457, AI312428, AI540446, AI564459, AI273179, AI934000, AI368816, AI371243, AW058279, AI434240, AL042533, AI702406, AL039390, AW080700, AAo41818, AI671642, AI860865, AA878808, AI961589. AA738104, AI582910, AI687587, AI798359, AI500683, AW079158, AI356470, AI493559, AI042655, AA939199, AI355008, AI521566, AI499104, AI274759, AL046990, AI630898. AL042416, AI539863, AI366900, AI433976, AI469516, AW071349, AI042488, AI924051, AL043089. AW161202, AI049850, AI366910, AI047611, AL040207, AI582926, AI049851, AI491904, AL040844. AW082113, AL040459, AI565256, AI565932, AW080565, AA070889, AA575874, AI499463, AA648480, AL043321, AI365256, AL133049, AL133084, AL133070, E12579, AR011880, I48978, AL133053, AL045626, AW191003, AI355126, AI537187, AI564500, AL045166, AW197139, AI354981, AI240602, AI610362, AL042544, AI440239, AI567961, AI521596, AI436438, AI828572. AI275175, AI521589, AI310500, AI537273, AI537191, AW151970, AI371265, AI436456, AL046681, AL039287, AW004595, AI887765, AI963846, AI049856, AC015853, AF055917. AR034821, AL080129, AF100781, AL050092, A58524, A58523, U30290, E12580, AL122049, AL117460, A45787, AL133049, AL133084, AL133070, E12579, AR011880, I48978, AL133053, AL137558, AL049423, AF118090, AL133015, AL133608, AL110159, AL137656, AL035458, U49434, X67813, M79462, D44497, AL049314, AL122101, AL096720, A08910, AL050024, A08909, AF084644, AF084645, AF114168, Y11254, U77594, AL122100, A08908, U68387.

Gene ID	No.				Accession numbers
HEOMV16	2123	958211	1 - 452	15 - 466	AF008439, Y11587, AR068466, AF067728, E13998, E06743, Y10655, AL117438, X95876, Z82022, AL049452, X72889, X82434, AB022159, AL137463, AL133629, AR038854, I79592, D00174, Z37987, AL050138, Y00093, AL133665, S77771, AF113694, I46765, AF183393, L13297, A08912, I89947, AF002985, AF161699, I48979, AF026008, AF137367, U35846, AF043642, AC004213, AL049465, U92992, AF113677, L19437, L10353, A07588, AF097996, I17767, E15324, X54971, AF038440, AL117435, AL133072, AF077349, AR020905, AJ001838, X70685, X72624, M30514, M85165, AL133607, A93350, AF017152, AL110221, AL050108, AF061981, AL080126, AL049466, X98834, L24896, X72387, S61953, S75997, AL137429, U13676, AF118558, I09499, U57352, AR005011, Y14634, AL137480, I03321, AF162270, AC007114, X81464, AF113690, X76228, I28326, AF118064, X87582, Z72491, AL137648, AC000301, AL133010, AL137548, AF151109, Z97214, AF081195, Z82206, X56530, E03348, Y10823, AL137640, AL137523, U58996, AL137529, AL133568, AL080148, AF106862, U72620, E12747, AF074604, AF215669, AL137560, AL122111, L30117, AF026124, AL050116, U66274, A12297, AL137292, AF000145, AL137267, Z49258, AF095901, Z93784, A32826, A30330, A32827, A30331, AL080060, Y11435, AF012536, AF076464, AF017437, AF119336, Y10936, AF081366, AF093119, AF069506, A44314, AL049464, S69385, AL133655, AL117585, A07647, X93495, AF108357, X53587, A08913, AL008706, I00734, A70386, U75932, AF078844, S63521, AF118094, AL133558, A41579, X60786, AL137478, A77033, A77035, A08916, AF073993, AL137271, AR012379, AL133016, E00617, E00717, AF016271, AF119358, AL137521, AF040723, AJ012755, AL137479, AF081197, AL137476, AL122123, AL022170, A15345, AF067790, AL122110, AL137283, AL080159, I33392, and AL133081.
HEOMV54	2124	866586	1 - 518	15 - 532	F11697, AA194124, AC005999, AC006547, AC005663, AC005664, and AC005160.
					AI819924, AI139693, AA658096, AW340876, AW196652, AW388936, AW117675, and AI146863.
HEOMV81	2125	915093	1 - 491	15 - 505	Z85996.
HEOMW26	2126	418125	1 - 386	15 - 400	
HEOMW83	2127	659808	1 - 341	15 - 355	
HEOMX04	2128	615337	1 - 287	15 - 301	AI309389, N49368, AI433008, AI344822, AI611016, AA618452, AI271126, AL137998, R69717, AI744826, AW269117, AW385452, AI963720, AW303002, AA018283, AA490183, AA780468, AA349927, AL039958, T41247, AA661921, AI307486, W74144, AI345157, AI700109, AA483929, AL138455, AI249573, AI732151, AA279421, AW264934, AI694130, AA724922, AA747070, AL041619, AL046409, AW069769, AA486131, AI754336, AA533333, AI306324, F00107, AA780515, AW003107, AL138396, AI925579, AA482711, AI610603, AI696962, AI369580, W77807, W72692, AA838190, AW088846, AA654781, AA480792, AI791913, F05324, AI792133, AI821714, AA206721, AA493136, AI610840, AA553406, AA218835, N47224, AW190615, AA478355, AI431303, AI499588, AA493894, AA774059, AI393931, AI004704, AA834707, AI270117, AW088616, AA630672, AL045808, AL046156, AW023990, AW268757.

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AW328488, AA493975, AI524037, AL037850, W45625, AW302903, AA572798, AI907711,
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AA290624, AW167881, AF034184, AA455670, AI823688, AI027459, T06822, H23653,
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H86363, AA640410, AA640430, AL037683, AW161978, AA584201, AW104030, AI031973,
AI638561, AA101689, AA584805, AI284640, AI094787, AW102846, AI345827, AI370074,
AI754253, AL043289, TS9244, AW235497, AW263415, AI167356, AA508359, AI687343,
AL037554, AL045813, AL044940, AI349817, AL046746, AL046266, AI924872, AW268954,
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					Accession Numbers
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HEOMX61	2129	958233	1 - 535	15 - 549	
HEOMX65	2130	575919	1 - 451	15 - 465	Z98950.
HEOMX92	2131	919200	1 - 422	15 - 436	N63479, T66032, AA196156, T47172, AA305334, AI124664, AI537310, AA401240, AA761876, AA769559, AA404287, AI925653, AA314294, AA581238, AA312605, AA032022, AA031911, AA425438, AA468322, F00487, AA420494, AA324750, U95740, AC004770, AL049759, AL033524, AC006237, AL035458, AF086934, AC005772, AC005772, AL109623, AC006211, AC004938, AP000354, AC006996, AC002492, AP000964, Z98946, AL110122, AC002091, AC004084, AL022165, AL008582, AL023581, AC004888, AC006511, AC006057, AC006512, AL049829, Z47066, and AC007381.
HEONC06	2132	855649	1 - 643	15 - 657	
HEOND75	2133	918209	1 - 314	15 - 328	
HEONJ79	2134	506226	1 - 333	15 - 347	
HEONK15	2135	660365	1 - 430	15 - 444	H06248, H13011, M89651, and AF004222.
HEONM30	2136	692726	1 - 311	15 - 325	AC007032.
HEONM69	2137	855638	1 - 507	15 - 521	AC000393, and AF081946.
HEONN28	2138	745144	1 - 454	15 - 468	AL041375, AI053477, AW274078, AI431513, AI376239, AW089016, AA225890, AA503298, AA664604, AW162047, AW162303, AA557945, AI014843, AA947375, AW270258, AW078909, AW193493, AW302315, AA609834, AA947265, AW341955, AW089950, AA657374, AI439910, AA478602, AW190484, AI865196, AA489390, AI243793, AA669234, AI610737, AL039187, AW243793, AA483606, AI572680, AI371208, AA299589, AI292317, AI565126, AA405726, AA570740, AA652834, AA492105, AA805848, T74524, AA287570, AI473671, AA720732, AW068008, AW068007, AA255853, AA568204, AI654738, AA469230, AA487475, AA608520, AI039089, AL049869, AC002316, M87914, AC007371, AC004491, AC004084, U47924, AC005089, AC006597, AC002996, AC006509, AP000689, AC007536, AC007637, S42653, Z86090, AL080243, AC005632, AL049636, AL022326, AC007358, AP000688, AC005037, AC002543, AL096791, AL031848, AL031005, AC003098, AC000087, AC002038, AC004796, AC005913, AP000556, AL049692, AL035587, AF047825, AL096712, AL133396, AC004455, AL121653, AL035587, AC005696, AD000092, AL049830, AL031776, AL024498, L24093, AC000087, AC005837, AC005837, AL049570, AC005800, AC009510, U07561, AL096701, AL022322, AC005837, AF205588, AL035403, AF001549, D87675, AP000252, AP000065, AL117258, AL034418, AL035088, AC003663, Z83844, AC006064, AC002312, AL023807, AC006511, AC005365, Z98200, AC005081, AP000134, AP000212, AL133500.

HEONO81	2139	1 - 283	15 - 297	AC000353, AF048729, AC004887, AL009182, AE000658, AL121603, AP000090, AC005914, AC005871, AC005900, Z95152, AC002544, AC006312, AL031311, Z49866, AP000692, AC006211, AC004492, AC005736, AC002546, AC004859, AC005924, AL117337, AC005209, AL035685, AC004973, AC004953, Z69705, AL080317, AC002350, U85195, AL031985, AL034555, AC004024, AC007546, AC005476, AC004253, AP000008, AC006115, AC004815, AC002404, AC007327, AL121934, AL121658, AC004858, AC004754, AC004983, AC004453, AC005049, AC007421, AC004134, AP000553, AC012384, AL031681, AL135744, AC002381, AC005015, AC005568, AL133245, L78833, AC005669, U91327, AL133246, AL021394, AL050343, AL049709, AC002301, AC000134, AC002365, AL021578, AL049795, D86995, AC005338, AC005409, AC008372, AC002390, AC004686, AC005899, AL049646, AL109952, AL049588, AL132987, AL022721, AC003070, AF207550, AC003104, AC006251, AC007216, AC004821, AC005277, AC006241, AC005274, AP000128, AP000206, AC004797, AC005536, AC006538, Z98884, AL035422, Z83838, AC006011, AC005796, AC006117, AC002310, AC009247, U95742, AC007199, AC004910, AC005808, AC005754, AL035458, AC005746, AC009516, AC002126, AC002091, AC006571, AC006151, AC007151, AC005775, AC007114, AC020663, AC007221, AL031597, AL035414, AC005856, Z99943, AC002551, U91323, AC007382, AC003684, AL049569, AP000355, AC005527, Z69042, AC003109, AP000555, AC005513, AC004841, AL022343, AP000696, AC005291, Z97181, Z49258, AC008040, AC004019, AP000114, AP000046, AC005531, AC004466, AC002463, AC006501, Z49154, AC005255, AP000557, Z98050, AC005755, AF134726, AC005412, AC003110, AC004884, AC004659, and Z95115.
HEONP93	2140	1 - 368	15 - 382	AW392300.
HEONQ08	2141	1 - 699	15 - 713	AI378653, and H97239.
HEONQ19	2142	1 - 897	15 - 911	AAS32915. AI625739, AW272001, AI435829, AA147072, AI609268, N91272, AA147105, AA834526, W27700, AA126903, AA602530, AA398168, AW294288, AW004619, AI202250, AL119565, AB007884, and AJ250425.
HEONQ58	2143	1 - 506	15 - 520	AA681299, and AC005075.
HEONQ65	2144	1 - 340	15 - 354	
HEONQ69	2145	1 - 355	15 - 369	
HEONU26	2146	1 - 491	15 - 505	AA845825, AAS03018, AI862790, AI240919, AI246061, AI792537, AI270853, AI252826, AI254046, AI251643, AI435754, AW086343, AI224728, AW301997, N29930, AI271005, AI249565, AI254826, AW271081, AI224422, AI251312, AI252060, AW302086, AI254783, AI307025, AI472990, AI254056, AI254683, AI223591, AI252493, AI284764, AI224311, AW086227, AI435696, AI053574, AW167330, AI362442, AI682310, AI884861, AA857812, AA862014, AA340153, AI864500, AA468494, AI255060, AW271137, AI252996, AW302016, AA678616, AA662905, AI683019, AI289050, AA076473, AA728911, AI085095, AI284092,

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AA935380, T34558, AL119563, AA484892, AI421950, AW026305, AI054090, AI690335,
AA486352, AW054936, AA468956, AI249853, AI284543, AI254770, AI798242, AI251944,
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AW021007, AI049534, AA741301, AL138065, AA579399, AW192515, AW078821, H39839,
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AL135879, AL121790, AF064858, U91321, Z98884, AL031595, AC005304, AC005017.

HEONU75	2147	851054	1 - 215	15 - 229	AC003969, AC005293, AF031078, AL031311, AP000300, AL033397, AF030876, AC005831, AC007225, AC006088, AF207550, AL034384, AC008040, AC000085, AC007371, AL022318, AC007284, AC003013, AC005229, AP000704, Z84487, AC004973, AC005066, AC002094, AL035405, AC018633, AC003077, Z86090, AL031321, AC004773, AC003025, AL049834, AC005091, AC007488, AC005028, AC009294, AF126403, AC004815, AB003151, AC006059, AC006948, AP000500, AC007637, AC012384, AC004087, AC005971, AL035691, AC006387, AL078638, AC004941, AL031123, AF045555, and AL031678.
HEONV59	2148	949152	1 - 376	15 - 390	
HEONW15	2149	575812	1 - 379	15 - 393	
HEONX19	2150	668740	1 - 363	15 - 377	AA282391, AA282047, AA281587, AA748355, AA721283, and Z83847.
HEONX49	2151	485897	1 - 480	15 - 494	
HEOOB36	2152	830013	1 - 363	15 - 377	
HEOOD03	2153	923505	1 - 502	15 - 516	AA404360, AW148964, AI290157, AA809125, AI433952, AA569565, T94858, AA601376, AI224583, AA428270, AA255832, AA855570, AIV006124, AA831350, AA811673, AI133355, AA927531, AL036896, AA484699, AA018488, AA174108, AI457605, AA669458, AW419201, N76712, AI889236, AA491941, AI254463, N71264, AI252005, AA533977, AW403177, AA493464, AI097211, AI254267, AW088928, AA666172, T73227, AL044758, AA533066, AA225645, AA947997, AA533660, AI869406, AA493546, AA516061, AI572680, AI744890, AA130350, AI926104, AI125192, AL044966, AA199578, T49381, AW379889, R07303, AI271873, AI912307, AI610814, AL079508, AA359725, T07954, AA165504, AA484321, AA779599, AI978902, AP000563, AP000211, AP000133, AC003041, AB003151, AC005280, L78833, AC005484, AC006597, AC005182, AC004771, Z95704, AL049636, AC005099, AL022318, AL109627, AL117339, AL022320, AC005562, AC005839, AL031311, AC006511, U91321, AC005632, AC004150, AP000213, AF064861, AC006026, AP000135, AC003072, AC004913, AL049869, AC007546, AC000052, AP000031, AL031846, Z84476, AC007030, Z98949, AC002310, AL096701, AF165926, AC006211, AL031282, AF111169, U91327, Z84474, AC004542, AL035696, AC004876, Z86090, Z83844, AC004967, AC002477, AC007421, Z83840, AL035587, AL034143, AC020663, AC000353, AC005209, AC005037, Z93241, AC007666, Z97054, AL109623, AC004983, AC006166, AL031662, AL078639, AC007226, AL031730, AC009516, AC005971, AC008372, AC005291, AC007277, AC007686, AC005014, AC004895, AC007707, AC004019, AC005529, AF207550, AC007376, AC006120, AL096791, AC002351, AC003950, AC005049, AC007055, AC008044, AC005089, AP000354, AL139054, AC005779, AP000692, Z15025, AC004797, AC006162, AC005399, AC007364, AC003982, AC005694, Z93017, AC004882, AB023051, AP000116, AC002350, AL033392, Z98941, AC004084, U91326, AC005358, AC003688, AC007263, AC004765, AL050341, AL035413, AP000689, AC004910, Z95703, AL034402, AL117337, AC005519, AC008134, AC004890, AL078581, AC003006,

HEOOD59	2154	738991	1-397	15-411	AC006960, AF118808, AF196779, AC005618, AP000114, AP000046, Z98051, AC006277, AL008725, Y18000, AC006285, AL133448, AC007204, AC004447, Z82171, AC008067, AC003030, AC002369, AL024509, AL031281, AC007919, AC003969, AL080243, AC004653, AF045555, AL034548, AP000030, Z82206, AC005531, D83253, AP000099, AL035660, AP000008, AP000512, AL034417, Z82190, AC002996, AC005730, AL008582, AC004859, AL031591, AC004878, U91323, AC006449, AL133445, AL121603, Z81369, AC005736, AC006312, AC005625, AC006509, AL121578, AL031432, AL122020, AP000036, AP000253, AL031666, AL049759, AL031427, AC003007, AC005755, AJ003147, AC006581, and AC006396.
HEOOV40	2155	710800	1-357	15-371	
HEOPE28	2156	926837	1-589	15-603	AA286964, AI568687, AI680899, AA809497, AA746098, AA287967, AW452688, AA814524, AW130037, and AB028989.
HEOPE58	2157	851009	1-463	15-477	AL078634, AP000117, AP000194, AP000313, and AP000050.
HEOPF03	2158	839868	1-530	15-544	AC004954.
HEOPF18	2159	918405	1-407	15-421	
HEOPF25	2160	934171	1-510	15-524	
HEOPF33	2161	969695	1-406	15-420	AA810065, AW205048, and AC003959.
HEOPF56	2162	850925	1-687	15-701	U81192, AP000325, AP000054, AP000122, and AP000169.
HEOPG01	2163	915047	1-476	15-490	AL031667.
HEOPI69	2164	883161	1-580	15-594	
HEOPI73	2165	850936	1-597	15-611	AL121760.
HEOPJ41	2166	855634	1-536	15-550	N91672, AC008122, AP000558, AC009516, U91318, AB020864, AP000555, AF003626, AP000501, AL049779, AP000553, and AL031984.
HEOPK43	2167	930942	1-649	15-663	
HEOPK47	2168	966327	1-699	15-713	AC006987.
HEOPK52	2169	883170	1-475	15-489	AC005913.
HEOPK90	2170	850883	1-624	15-638	
HEOPN73	2171	851002	1-504	15-518	
HEOPN78	2172	918205	1-314	15-328	
HEOPN95	2173	973440	1-732	15-746	Z99396, AW392670, AW372827, AW384394, AW363220, AL119497, AL119355, AL119457, AL119319, AL119483, AL119324, AL119443, U46341, AL119484, AL119391, U46349, AL119522, AL119363, U46350, AL036418, AL038837, U46351, AL119341, AL119335, AL119418, AL037051, AL036725, AA631969, AL119396, AL119496, AL036858, AL037205, U46347, AL119444, AL043029, AL042984, AL119439, AL119401, U46346, AL042614, AL039074, AL036924, AI142132, AL134525, AL134538, AL042544, AI142137, AL042965, AL042975, AL134902, AL119399, AL134536, U46345, AL134536, AL043019, AL043039, AL043033,

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HEOPO08	2174	958184	1-422	15-436	AL042551, AL038509, AL119464, AL042450, AL043011, AL042542, AL037094, AL037085, AL037526, AL036196, AL043003, AL036268, AL037639, AL036190, AL037082, AL038520, AL036767, AL037077, AL037074, AL036998, AL038851, AL038447, AL036238, AL036733, AL036719, AL037178, AL037027, AL037615, AL036679, AL036765, AL036191, AR066494, AR060234, A81671, AR023813, AR064707, AR054110, AB026436, and AR069079.
HEOPP30	2175	850916	1-418	15-432	R93882, R99079, AA846981, N70425, AI271762, AA563770, AC007225, AC004019, AC006121, AC000052, AL031427, AC007279, AP000690, U95740, U73167, U90094, AC006071, AL049569, Z77852, AP000151, AC005484, AC005014, AC008154, AC005539, AC002565, AC002314, AC003665, U80017, AC004084, AC007993, AC007731, AL008718, AC005500, AC004491, AF001550, AC005081, AC005932, AC000159, AC000134, AC005952, AC020663, AL121653, AC005535, AC005844, AL049793, AC004851, AF205588, AF196969, AP000513, AC006084, AL133244, AB023049, AC006146, AP000115, AC004820, L78833, AC005295, AC006449, AC004686, AL031846, AF196970, AC005046, Z99716, AC006111, AL031255, AF042484, AC007226, AC006487, AF045555, AC005829, AC004910, Z85996, AC005920, AC003101, AC005921, AC002059, AL008582, AC005412, AP000694, AC005049, AP000689, AL109753, AC005527, AC004900, AC004797, and AC004999.
HEOPQ06	2176	934147	1-637	15-651	AA631942, AI086196, AC005590, AC004224, AL022330, AL096678, AC004032, AL096678, AC004645, and AC006237.
HEOPW04	2177	850948	1-721	15-735	
HEOPW38	2178	926764	1-520	15-534	AC005189.
HEOPW67	2179	840050	1-542	15-556	
HEOPX85	2180	855625	1-200	15-214	AI889579, AI160786, F35684, AI355246, AW019964, AW020198, AW020198, AW373604, R67701, T83057. AA668905, AW247338, F19643, T62078, AA600132, AA634242, AA487226, AI915081, AA214457, AA354324, Z92546, AP000353, Z95979, AC004882, AC005529, AP000115, AC002077, AP000086, AC006211, AC006120, AC006211, AC007225, AC005018, AL009182, AC005620, AL009029, AC006034, U62317, AC004820, AC007225, AC005519, AC005094, AC004663, ZS2179, AC004701, AC004815, AL031595, AL031984, AC004859, AL035405, AC005559, U47924, AC005740, AL035086, AC003692, AL121603, AC004859, AL035405, AC005559, U47924, AC005740, AL035086, AC003692, AP000312, AP000193, AP000050, AP000117, AF001549, U52111, AL035703, AC005412, U91321, AL121658, AC004659, AL031587, Z98946, AC007388, AC006111, AC004762, AL049553, AC005031, AC000079, AL109963, AL022398, Z84487, AC000068, AL022334, AL008635, AC005532, AC006011, AC005046, AP000510, AC007057, U62293, AC005057, AF196972, AC005666, AL109827, AC007308, U80017, AC002470, AC005921, AP000688, AB026899, Z93244, AC007425, AC004216, U95743, AC005257, AF047825, AC005488, AC004675, AF207550, U89335, AL049434, Z98051, AL049795.

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HEOPY05	2181	918438	1 - 494	15 - 508	
HEOPZ02	2182	918407	1 - 493	15 - 507	AW392670, AW363220, AL042614, AW372827, AW384394, AL119444, Z99396, AL119443, AL119341, AL119319, AL119457, AL119497, AL119324, AL119483, AL037205, U46351, AL119355, U46349, AL119484, AL119363, AL119391, AL119418, AL119335, U46350, U46347, AL134524, AL134902, AL042978, AL119396, U46346, AL119522, U46341, AL042965, AL042975, AL042984, AL119401, AL134525, AL119496, AL119439, AI142132, AL043019, AL134920, AL119399, AL042544, AL042433, U46345, AL042896, AL042450, AL043029, AL134536, AL134538, AL042544, AL042970, AI142131, AL042542, AL042551, AL119464, AL043003, AL119488, Z99572, AR066494, A81671, AR060234, AR054110, AB026436, AR069079, and AR043113.
HEOPZ05	2183	928257	1 - 166	15 - 180	AW090604, and L01057.
HEOPZ11	2184	965970	1 - 462	15 - 476	
HEOPZ29	2185	878503	1 - 381	15 - 395	AA347231.
HEOQB30	2186	909899	1 - 658	15 - 672	AA280922, AA090210, AI264291, AW148672, AA769639, and D29642.
HEOQC10	2187	963398	1 - 386	15 - 400	AA837771, AA573000, AW419389, AA515172, AA768179, AA635433, AA993165, AA664248, D51877, AA385775, AA302660, AW419389, AI246061, AA078184, AA714073, H85587, AA568314, T07285, AI521042, T17135, AA078137, AI246061, R61195, AA720582, AI743129, AA832124, AA371410, H27788, AA668148, AI244985, AA743968, R61195, AA720582, AI572680, AI223968, AA348271, AW105463, AL044793, AW341882, AA662629, R87135, AI572680, AI223968, AA658853, W39287, AP000115, AC004859, AL031781, AI653783, AI761566, AA078509, AA658853, W39287, AP000115, AC004859, AL031781, AC005071, AL031133, AC005037, AC005004, AF001549, AC005722, AP000355, AL133445, AL021391, AF047825, AL031985, AC004587, AC005300, AC005193, AP000212, AP000134,

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1, AA368329, AW019964, AI160786, AW440451, AAS82746, AAu71045.
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12, AA657910, AI198718, H29914, HS1284, AA077637, AAS13884, AL041352.
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2414, AA445908, AI929298, AI929825, AA683069, AI130709, F26713,
095, AI671077, AW161016, AW079737, AW272640, AW275432, AW157180.
4011, AI609972, AI814682, AI291439, F31575, AA678472, AAS72987.
7215, AI858272, AA297698, AA297006, AAS58404, AL039309, AA378207.
4594, C14330, AI368732, H73550, AL045476, AA486820, AI432298, R93919,
9227, AA612578, AA745628, AI583291, AAS64682, AA122310, AA282951,
4580, AA584800, AA772704, AA093114, AA611761, AI634187, C16358.

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HEOQE04	2190	922876	1 - 480	15 - 494	AA381451.
HEOQF77	2191	850974	1 - 403	15 - 417	AA714278, AA827817, AA483603, AI032875, R44616, AL036300, AI243933, AA135806, AI904051, AL008630, AC002352, AC004893, AC002115, AC002045, AC005089, AC005756, AC005952, AL031273, AL020997, AL031311, AC005067, AP000313, AP000194, AP000050, AC011504, AF001548, AP000117, AC005488, AC004491, AF053356, AC004659, AC004834, AC002364, AL096775, AC000113, AC005551, AC005081, AC005086, AL031686, AC003666, U63313, AC004897, AL117694, AC004382, AC000082, AC004883, AC005792, AL049539, AC004905, AP000032, AC002425, AC005479, AL035088, AC002070, U91323, 297055, AL033517, AF003529, AC005049, U96629, AC003101, AC000070, AC005620, AC002527, AF196972, AP000355, AC009288, J03764, AP000013, AP000154, AC005015, AC004653, AC002302, AC000091, AC002310, AF030453, AC005088, AC007207, AC004841, AF184614, AC002522, AC004602, AC000095, AC004528, AF024533, AL035073, AC005841, AP000008, AC005800, AL049745, AC002992, AC002312, and AC022517.
HEOQG73	2192	958109	1 - 584	15 - 598	R95051, AA491864, AI745457, AC004770, AC004228, AC004470, AC005550, AL031670, AF053356, AC000092, AC005527, Z85986, AC000134, AC005529, AP000555, AP000885, AL034429, AC004530, and AL008709.
HEOQG80	2193	850971	1 - 448	15 - 462	AI868365, AL132777, AL031651, AF111168, AC002115, AC002381, and Z68323.
HEOQH81	2194	934100	1 - 597	15 - 611	AA708108, AA504896, AA811208, AI590941, AA486226, AC005529, AC005015, AC005527, AC002470, AC002375, AC007216, AF001549, AC005971, AC004895, AL031286, AC007537, AC000025, U82671, AC002470, AC005081, AC002316, AC004974, Z69917, AP000298, AC005690, AC000134, AP000701, AL049757, ZS2182, AC005274, AC004531, AF039907, AL031668, AC006017, AP000354, AC003684, AL008718, AC009516, U78027, AC005011, AL049869, AC006017, AL021368, AL035413, AL031311, AL035422, AL031295, AC005377, AP000044, AP000112, AL021368, AL035413, AL031311, AL035422, AL031295, AC005377, AL031428, AC009731, AC004858, and AC007308.
HEOQI11	2195	965973	1 - 587	15 - 601	AA533768, AI820985, AA620562, AI720732, AW404354, AA088727, AW082470, AA984114, AI590906, AW089604, AC006036, AC005548, AC005972, AL031662, AC004185, AP000509, AC004024, AF017104, AF141309, AP000563, AL049845, AP000210, AP000132, AC004522, AF129756, AC003009, AC006211, AC000062, M64231, AP000348, AC006504, AL050343, AC002477, AC004087, Z74739, AL023494, AC007684, AC003043, Y14768, AC004874, AP000505, D84394, AF165926, AC007102, AC008063, AC007639, AC004491, AC004887, AF196972, AC004253, AC005484, AC004787, AC016831, AP000503, AL133312, AF134726, AL035667, and AL121653.
HEOQJ11	2196	879559	1 - 552	15 - 566	AC002536, and AB029488.
HEOQK70	2197	934370	1 - 601	15 - 615	AI383451, AL119484, AW392670, AL119439, AL134530, AL134519, AW372827, AL119391, AW363220, AL119319, U46347, AW384394, AL119457, Z99396, AL119324, AL119522, AL119363, AL119497, AL134528, U46351, AL119341, U46350, AL119396.

					AL119483, AL119443, U46349, AL119444, AL134525, AL134527, AL134531, AL134536, AL134538, U46341, AL037205, AL134902, AL134518, AL119496, AL119335, AL119401, AL119418, AL043091, AL042544, AL042614, U46346, AI142137, AI142132, AL119399, U46345, AL043019, AL031666, AR066494, AR060234, A81671, AR069079, AB026436, AR054110, and AR043113.
HEOQK72	2198	847285	1 - 147	15 - 161	AL045891, AL135012, AL134524, AL043089, AL045327, AL043321, AL042488, AL042655, AL046356, AI432644, AL047163, AI431307, AL047611, AL042898, AL042515, AL045328, AL041862, AL042508, AI431316, AI432666, AL042853, AL042729, AL042931, AL040207, AL042787, AL043091, AI623302, AL043239, AI431238, AL047675, AL042533, AI866786, U46344, AI690946, AW151136, AI539771, AI537677, AI494201, AI500659, AI866465, AI815232, AI801325, AI500523, AI538850, AI887775, AI582932, AI923989, AI284517, AI872423, AI590043, AI648567, AI500706, AI445237, AI491776, AW151138, AI521560, AI889189, AI500662, AI582912, AI284509, AW172723, AI539800, AI440263, AI889168, AI538885, AI866573, AI633493, AI434256, AI866469, AI805769, AI434242, AI888661, AI284513, AI500714, AI888118, AI285439, AI285439, AI859991, AI889147, AI355779, AI623736, AI371228, AI581033, AI440252, AI491710, AI610557, AI860003, AI242736, AI828574, AI887499, AI539781, AI539707, AI702065, AI885949, AL042420, AW089557, AI559957, AI521571, AL042802, AI469775, AI866581, AI815150, AI567953, AI446495, AI433157, AL047092, AI890907, AI561170, AI927233, AI432656, AL043166, AW151979, AL042745, AI285419, AI554821, AL042741, AI432653, AI431323, AI431321, AI431315, AI371251, AL039390, AI866510, AW081103, AI289791, AI866461, AI923046, AI690948, AL045620, AL047037, AL042523, AI521596, AI440238, AL046681, AI499581, AI539863, AL079977, AI366900, AI866820, AW197139, AI923061, AI275175, AL045500, AL042551, AI582926, AW058275, AI499463, AI610362, AI119748, AI434222, AI440239, AL042744, AI274759, AI537273, AI436456, AI371265, AI963846, AI567940, AI610357, AI817244, AI612913, AI285826, AI863014, AI355765, AI521594, AI499512, AI433976, AL042365, AI889133, AI538881, AL048403, AI288281, AL039276, AI282268, AW087954, AI355017, AI434255, AL047422, AL043278, AI434223, AI285432, AI697243, AI671642, AI610429, AI628850, AI433968, AI476086, AI537187, AI433155, AL042944, AL045163, AI539632, AI889148, AW118237, AI439995, AI539847, AI521465, AI828583, AL042538, AI872300, AI554827, AI863357, AW172745, AI354998, AI863197, AI567944, AI567935, AL046990, AI355008, AI431246, AI805762, AI610426, AL043295, AI867068, AW080700, AL042557, AI538878, AI888665, AI271234, AL042572, AI610402, AI567971, AL042377, AI499555, AL042842, AI567954, AI432654, AI366910, AI049859, AI432650, AI866457, AI499915, AI499508, AI817373, AI872315, AI537191, AI866491, AI654276, AI567993, AL031667, AL122101, AL133049, AL133074, AL048390, AI273179, AI284515, AL031667, AL122049, A85203, AR034821, Y17793, AF113694, AL049423, AL133076, Y10655, AL137267, AL122049, A85203, AR034821, Y17793, AF113694, AL049423.

HEOQM83	2199	850964	1 - 588	15 - 602	AL133655, U30290, E13998, AL050280, AL049464, M30514, L31396, L31397, U68387, L31397, AL133084, AL133070, AL110159, S61953, AL133082, AL050146, AL122093, AL133072, AL122110, AL133080, AL133081, AL133077, AF081195, E07361, AF002985, U58996, AL133607, AL133644, AL133015, AL133608, AF161699, AR055519, Y07915, I80064, AL049300, and AR066494.
HEOQN06	2200	934202	1 - 759	15 - 773	AA341080, AW249300, AW392934, AA773513, AA176554, W93722, AI597867, AC006252, Y17169, and AL136773.
HEOQN15	2201	864110	1 - 211	15 - 225	AA774831.
HEOQN87	2202	850957	1 - 454	15 - 468	AA680243, AI732120, AA453558, AW406162, AA938105, T40452, AA601908, AA806796, AA205915, AA774222, AL121235, AA347241, AL046457, D82290, AA496508, D82542, AA836811, AL048125, AI110760, AI924251, AA524821, AA309841, AL079869, AA533303, R70821, AI799545, N23649, T74382, AI093030, AI133297, AA508359, AA483223, AI038990, AW075511, H71429, AA722372, AI816537, AA747777, AW245747, AA846952, T07249, AL036037, AW438555, AI284640, AA587604, AA605272, AW248847, AA502104, AI754955, AA580808, AI270117, AW023990, AA584167, N27329, AA702729, AA632868, AA496260, AA652057, AA324849, AA837655, AI274692, AA613232, AW303196, AW274349, AL038705, AA224525, AA214342, AW301350, AA992351, AI583283, AI334443, AW419262, AI370074, AA503015, AL041706, AI431303, AW193265, AL046205, AL041690, AI350211, AW072923, AA584581, AA192740, AW302013, AI631119, AA178953, AA810269, AI744826, AA634889, AA613227, AA632612, AA720702, AW128900, AW128884, AW088224, AL046409, AI370094, AI364020, CO6151, AA613203, AI364026, AA658362, AA834713, AI281881, AA614070, AA828712, AA568341, AW301302, AI572924, AW088058, AW021583, AA526787, R95139, AA618412, AL044940, AI499938, AA493621, AA568862, AI819574, AA847499, AI473475, AA478355, AW438643, AW276435, AI432270, AI919265, AA834755, AA490183, AW022406, AA513136, AI537506, AI053672, AW274346, AW245325, AA493136, AA847952, AA515440, AW270382, AA649604, AA804962, AW410400, AA367986, AA483771, AA856954, AA366312, AL119691, AW021207, T41247, AP001038, U07562, AC002301, AC004690, Z98036, AF109907, AF196779, AL023494, AC005324, AL049776, AC009516, AC007686, AL035587, AL011846, AC004858, AC005406, AF088219, AC007298, AL022476, AC004854, AC007243, D87675, AC006359, AP000352, AL050321, AL034420, AC005231, AC008072, AC005274, AL096769, AP000088, AC004675, AP000240, Z86090, AC004517, AL035681, Z98884, AP000553, AL008718, AC002365, AC003085, AC005725, AL117258, AC000358, AC006285, AC007136, AL022329, U96629, AC007051, AC000353, AC006965, AC004671, AC005763, AC006486, Z92845, AC008372, AL020995, AC007955, AC002418, AC007688, AC004848, AC004386, AL031584, AC007283, AL049829, AL049832, AC004019, AC003035, AC002119, AC007041, AL122020, AL034548, AC006275, AL121603, AC000052, AC009069,

AL035072, U07000, AP000090, AC005778, Z85987, AC005531, AC005529, U91326, AC006312, AL096775, AF165926, AC006213, AC005229, AC002558, AC005740, AP000354, AC010200, AL022302, AL109618, AC005257, AL021154, AL035458, AP000513, AL049869, AC005994, AF227510, AC006241, AC005839, AL133382, AP000017, AC005913, AC005787, Z84488, AP000459, AL135744, AL033525, AC005291, AC004381, AC004150, Z69666, AC007666, AC004638, Z92542, AC005410, AL031295, AC003006, AC005414, AC006277, AC005562, AC006111, AC006548, AL121591, AL022163, AC005332, AC007537, AC005914, AP000692, Z84721, AL031447, AC005694, AC004815, AL034549, AL023284, AP000044, AP000112, AC006195, AC004975, AL049758, AC005242, AC005696, AC004616, AL008583, AC005900, AL035450, AP000065, AL014371, AC004016, AC005081, AC005527, AC006207, AC006210, AC005399, AC004626, AC002395, AL139054, AC007066, AL031719, AC006017, AC004472, AC006511, AL050308, AP000961, AC004827, AC004987, AC007387, AF064861, AL021940, AL022240, AC002991, AL109941, Y10196, AL080243, AC002429, AC002312, AC018633, AC005924, AC007227, AL133485, AP000552, AC007226, AC007314, AL132994, Z82208, AC000379, AC006251, AL118497, Z98745, AC004033, AC004686, AL049569, AC009247, AC005331, Z97053, AC004079, AC006374, Z49237, AC003950, AC007214, AC005019, AC005519, Z83844, AL133448, AC012627, AC010072, U85195, AC003108, AC004544, AC006211, AL049653, AL023575, AC004821, U63630, AL009179, AC005899, AL031685, AL024507, AL035089, AC006115, AC004099, AC005225, AC000003, AL033460, AC004593, Z98051, Z97054, AC003065, AC005565, AC005785, and AC005180.				
AL042026, AL040542, AL042640, AL042540, AL046135, AL041808, AL044178, AL044364, AL043613, AL044413, AL044340, AL042334, AL043585, AL044583, AL044354, AL041936, AL019459, AL039576, AL040947, AL046244, AL043201, AL043604, AL039472, AL046383, AL043218, AL039689, AL044015, AL044350, AL039550, AL043425, AL042346, AL043424, D11960, AL045991, AL079876, AW450335, AL044377, AL042700, AL043468, AW297822, AL043795, AL546832, AL043128, AL044029, AL042245, AL044771, AL042712, AL036650, AL043867, AL049007, AL036630, N84802, T23658, AL039924, AL046097, AL040414, AL044412, AL040571, AL046994, AR035193, A13393, A49045, A58522, A58523, A58524, A58525, A64973, A82653, A83151, A83642, A83643, A84772, A84773, A84774, A84775, A84776, A86792, A93963, A93964, A95052, AR017907, AR027100, AR067731, AR067732, E12615, E16636, I28266, I44516, A17115, A18079, A27396, A98767, AR028564, I63120, A02710, A02712, A07700, A13392, A22413, A25909, A60955, A68104, A68112, A76773, A91750, A93016, AR009151, AR009152, AR037157, AR054109, E14304, E16678, I19516, I21869, AR068550, AR068551, A02228, A13388, A18050, A23334, A23633, A23998, A24782, A24783, A38214, A44171, A38775, A49700, A58521, A58998, A60111.	15 - 1824	1 - 1810	942596	2203
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					A60209, A60210, A60211, A60212, A70040, A75888, A80474, A80475, A80476, A80477, A83180, A84746, A95051, A95117, A98417, A98420, A98423, A98427, A98432, A98436, A98467, AR000006, AR000007, AR007512, AR018924, AR020969, AR021440, AR028667, AR028668, AR028669, AR028670, AR029417, AR031529, AR035224, AR050583, AR050584, AR051651, AR051652, AR067733, AR067734, AR068506, AR068507, I50882, I70384, I70974, I77211, I95540, AR031375, A21624, A21625, I19517, A00781, A00783, A02230, A18756, A25853, AR015961, AR038307, A29109, A32110, A49701, A58526, A91753, A94046, A94048, A94054, A94061, AR028672, AR031488, AR038066, AR043602, AR043603, AR060673, AR060676, AR062871, E13740, I13349, I13521, I44531, I52048, I60241, I60242, I62368, I84555, A10360, A10361, A27169, A27170, A37074, A37075, A39929, A42481, A42484, A49987, A52326, A92133, AR015960, AR027070, E00952, E00953, E00954, E00955, E00974, E01324, E01563, E01614, E01693, E01696, E01718, E01997, E01999, E02001, E02003, E02098, E02100, E02104, E02221, E02291, E02292, E02293, E02396, E02428, E02431, E02679, E03165, E03550, E12523, E13527, E13364, E16036, I08049, I08638, I09251, I09267, I09268, I09269, I09270, I56772, I66481, I66482, I66485, E02096, A00784, AR038321, I09252, A10359, A18722, E02102, E02430, I66483, I66484, A20700, A20702, A43188, A43189, AR005153, AR005154, AR005157, AR005160, AR005163, AR015960, I66488, I66489, I66490, I66491, I66492, I66493, I66494, E02327, A32111, I25027, I25041, I26927, I26928, I26929, and I26930.
HEOQS11	2204	965930	1 - 310	15 - 324	
HEOQT57	2205	850931	1 - 644	15 - 658	Z99396, AW392670, AL036418, AL038837, AW384394, AL037051, AL036725, AW363220, AA631969, AW372827, AL036858, AL119497, AL039074, AL119324, AL119443, U46350, AL036924, AL119319, AL119457, U46341, AL119355, AL039108, AL039109, AL039128, AL119496, U46347, AL037639, U46349, AL039156, U46351, AL039659, AL119399, AL037085, AL037526, AL119444, AL036196, AL037094, AL119418, AL039659, AL119399, AL037085, AL038531, AL119439, AL119488, AL036190, U46346, AL036767, AL038520, AL037082, AL042965, AL042975, U46345, AL134533, AL036268, AL036767, AL038520, AL039048, AL045337, AL042984, AL036238, AL042551, AL134527, AL134528, AL039625, AL042909, AL037077, AL038447, AL042970, AL039678, AL039629, AL134538, AL042450, AL042544, AL043019, AL043029, AL037615, AL038851, AL043003, AL039386, AL042542, AL036998, AL036733, AL037027, AL037178, AL036719, AL119464, AL036774, AL119511, AL039410, AL037021, AL036679, AL036191, AL036886, AR060234, AR066494, AL036765, AL039410, AL037021, AR069079, AR054110, AR043113, and AB026436, A81671, AR023813, AR064707, AR069079, AR054110, AR043113, and AB026436.
HEOQT76	2206	850932	1 - 658	15 - 672	Z99396, AW392670, AL119497, AL036418, AL038837, AL119457, AL037051, AL036725, AL036725, AW372827, AW384394, AA631969, AW363220, AL119391, AL039074, AL119443, AL119319, AL119335, U46346, AL119324, AL039858, AL119496, U46350, U46341, AL036924, AL036924, AL119363, AL119496, U46350, U46341, AL119341, AL119483, AL119484, AL119363, AL119341, AL119355, AL119522, U46351, AL038509, AL119396.

Gene	ID	Acc	Range 1	Range 2	Sequences
HEOOWS6	2207	883227	1-212	15-226	U46349, AL039564, AL039085, AL039156, AL039108, AL039109, AL039128, AL119418, AL037639, U46347, AL134528, AL037094, AL037085, AL119444, AL042965, AL039659, AL036268, AL036196, AL036190, AL042614, AL134533, AL134538, AL042975, AL037205, AL119439, AL037526, AL038531, AL134902, AL119399, AL036767, AI142132, U46345, AL134518, AL134524, AL037082, AL134531, AL042450, AL042984, AL042551, AL039625, AL039648, AL038520, AL045337, AL036238, AL042970, AL119488, AL042909, AL037077, AL038447, AL039678, AL039629, AL039386, AL042544, AL043019, AL043029, AL042542, AL039423, AL036998, AL037615, AL038851, AL043003, AL036719, AL036733, AL037027, AL037178, AL119464, AL036774, AL037021, AL039410, AL036679, AL036765, AL036886, AL036191, AR066494, AR060234, A81671, AR023813, AR064707, AR069079, AR054110, and AB026436.
HEOQW81	2208	887147	1-1046	15-1060	AW340464, and AF127389.
HEORC12	2209	969585	1-432	15-446	T91937, T96469, AW082364, AI268419, AI690257, and AB007861.
HEORC48	2210	922885	1-800	15-814	
HEORE11	2211	965904	1-746	15-760	R93208, Z99396, AW392670, AL036418, AL036418, AL038837, AW372827, AW384394, AL037051, AL036725, AL119497, AL119319, AW363220, AL119457, AA631969, AL119483, AL119484, AL119391, AL119443, U46350, AL119522, AL119363, AL038509, U46351, AL036858, U46341, AL119355, AL039074, AL119418, U46349, AL119341, AL119335, AL036924, AL119496, AL119396, U46347, AL119399, AL119444, AL037205, AL119439, AL042965, AL037639, AL134531, AL039564, AL039085, AL037094, AL119401, AL039156, AL037082, AL039108, U46346, AL039109, AL037526, AL039128, AL036196, AL134533, AL134536, AL042614, AL043029, AL134920, AL042975, AL042544, AL042984, AL037615, AL036767, AL134532, AL038531, AL036733, AL037085, AL043011, AL036268, AL042450, AL043019, AL037077, AL042551, AL038531, AL043011, AL037178, AL119464, AL036774, AL038520, AL043003, AL036998, AL036238, AL036765, AL036719, AL036191, AL036158, AL037021, AL036836, AL037027, AL036719, AL036191, AL036158, AL036886, AR066494, AR060234, A81671, AR023813, AR064707, AB026436, AR069079, and AR054110.
HEORE22	2212	969579	1-704	15-718	
HEORE27	2213	850902	1-636	15-650	
HEORE79	2214	959572	1-315	15-329	
HEORF12	2215	969580	1-530	15-544	Z99396, AW392670, AW372827, AW384394, U46349, AL119483, AL119497, AW363220, AL119319, AL119355, AL119443, U46341, AL119324, AL119484, AL119363, AL119391, AL036418, AL038837, AL119341, AL119522, U46350, AL119522, U46351, AL037051, AL036725, AA631969, AL119391, AL036418, AL038837, AL119335, AL119496, AL119444, AL134538, AL037205, AL039074, AL119439, U46346.

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Name					Accession numbers
HEORH20	2216	934067	1-417	15-431	AA460896, AA210943, H10636, W72144, AI799645, N27422, AA834765, AC007014, U63630, Z99774, AL031276, AL031584, AC002565, AC006449, AL023807, AL035413, AC007685, AL079342, AL031291, AL049539, AP000404, AC005045, AC005488, AC004674, AC002470, AL022721, AC007436, and AC000078.
HEORJ90	2217	918166	1-250	15-264	
HEORK01	2218	914988	1-202	15-216	
HEORM10	2219	963194	1-411	15-425	Z85996.
HEORM21	2220	839142	1-422	15-436	AW376621, AW404049, AA045146, AI905741, AA309643, AA192275, R06391, U66685, T85620, and AA085953.
HEORR01	2221	915015	1-648	15-662	AI022223, AW179316, AI065031, AA640305, AA515165, AI744817, AI500151, T57562, AI623505, AA192366, AA209415, AW087537, AA369494, AA151880, AI340151, F17549, AA708889, AA489939, AA569631, D29424, AA730530, AA601376, AA224525, AI683079, AL048969, R86114, AW082432, AI925588, AI383589, AW405593, AA084946, AI198211, AI926909, AW275788, AA661583, AW247866, R42954, AI520984, AW021674, AI571847, AA557764, AI809745, AA578326, AA577824, AI567676, AI801563, AI702049, AW148821, AI002950, AA133568, F29968, AA180756, AL121039, AL133246, AL021154, AC007298, AP000348, AC006511, AC012627, U91326, AC005200, AC006084, Z83819, AL109801, Z97054, AC004149, AL049872, AC004019, AC007216, AC004650, AC005180, AL049539, AC006285, AC006312, Z83844, AC005488, Z94801, AC000353, AC005003, AC005726, AC005746, AF053356, AC004765, AC005531, AL133448, AC002558, AC004257, Z93241, Z98950, AC005519, AL008719, AC007192, AC004799, AC005940, AC006013, AC002091, AC005412, AC004638, AC005067, AC004477, AP000557, AC003957, AC012384, AC003101, AL021391, AC002377, AC008044, AC006449, AC007263, AL008637, AL078638, Z93017, AB025285, AL049636, AC003010, AC004999, AL022326, AC005332, AC005539, AL031295, AP000356, AF165926, AC002369, AC004699, AC006211, AC005527, AC002470, AP000555, AC005484, AC007688, AL080243, AL049631, AC005913, AL009181, AL035458, AC005971, AF001550, AP000688, AC009308, AC007919, U95742, AC007277, AC001231, AC007686, AB003151, AC004985, ALI21603, AC005695, AC007225, AC005755, Z97876, AF036405, Z81364, AC006455, AF031076, AC006251,

				AL049830, AC006130, AC005839, AC005295, AF205588, AL031650, AC005231, AC005593, AL020997, AC007227, AC005175, AC008041, AL049757, AL096701, AC002310, AL049776, AC004797, AC006237, AC004167, U85195, AC005104, AF001549, AC005004, AC004671, AC006057, AC008134, AL022318, AL096791, AL031289, Z84469, AC005682, AC005377, AC005252, AC005919, AC005323, AC004185, AP000152, AC006088, AC004030, AD000812, AC005619, AL008710, AE000658, AC005081, AC007371, AL031662, AC005822, AC005829, AL022323, AC005250, AP000088, AC005291, AC006441, AC005220, AC002126, AF045555, AP000553, Z92542, AC004231, AC006132, AF134726, AC003043, AC004811, AC004883, AC004882, AL049761, AC005921, AC004859, AL022320, AC004517, AC002306, AL049712, Z82215, AP000039, AC008055, AL020995, AL049795, AC007676, AC006249, Z94056, AL034549, U96629, AC005523, AL008726, AC005288, U52112, AF042089, AC005358, AL049653, AC005048, AC002347, AC004031, AL033527, Z93244, AC004024, AF195658, AF111169, AC006121, AP000962, AC003037, AL022315, AC005305, AC004975, AC006236, Z98048, AC002350, AL139054, AL096703, AC007011, AL121652, AC005516, AC005324, AC007114, AP000275, and AC006075.
HEORU06	2222	934097	1 - 494	15 - 508	AA282451, AI139796, Z99396, AW392670, AW384394, AW372827, AL119457, AL119396, AL119324, AL119341, AL036924, AL037094, AL037077, AL036196, AL037082, AL036767, AL036733, AL036191, AC004798, A81671, AR060234, and AR066494.
HEOSI66	2223	850917	1 - 523	15 - 537	
HEOSJ50	2224	922825	1 - 199	15 - 213	
HEOSL01	2225	914874	1 - 537	15 - 551	
HEOSL08	2226	850951	1 - 971	15 - 985	R93538.
HEOSL54	2227	926849	1 - 639	15 - 653	AC007444.
HEOSN60	2228	841869	1 - 665	15 - 679	AC005393, and AC006133.
HEOSO01	2229	855651	1 - 432	15 - 446	AC003663.
HEOSP05	2230	928270	1 - 680	15 - 694	AL134528, AL134518, AL119363, AW372827, AL119439, U46341, AL119319, AL134524, AL119496, AL042965, AL119484, AL042970, AL042850, AL119396, AL134920, AL134533, U46346, AL134538, AL119391, AL119444, AL042850, AL119396, AL119320, AL119304, A81671, and AR069079.
HEOSP06	2231	933991	1 - 536	15 - 550	AA278249, AA482174, AA282390, AA488762, AA489734, AW392670, U46349, AL119319, AW372827, AW363220, AW384394, Z99396, AL119483, AL119355, AL119363, AL119457, AL119324, AL119443, U46351, AL119484, AL119391, AL119341, AL119444, AL119497, U46346, U46350, U46341, U46347, AL119522, AL119335, AL119396, AL119439, AL037205, AL134518, AL042975, AL042984, AL134902, AL119418, U46345, AL142137, AL134538, AL119496, AL042614, AL119399, AL042965, AL134527, AL134536, AL134524, AL043029, AI142134, AL042544, AL043011, AL043019, AL043033, AL042450, AL042542, AL043003, AL119464, AL042551, AR060234, A81671, AR066494, AR054110, AB026436, and

HEOSRS4	2232	855615	1 - 434	15 - 448	AR069079.
HEOSS04	2233	926483	1 - 457	15 - 471	W65492, AC005393, AC006133, and AC005515.
HEOST23	2234	965916	1 - 753	15 - 767	W03011.
HFSAC03	2235	850146	1 - 552	15 - 566	AA341979, and TY2688.
HFSAM43	2236	715700	1 - 162	15 - 176	AA342419.
HFSAQ59	2237	572813	1 - 423	15 - 437	AA342556, and AC005158.
HFSAV59	2238	675922	1 - 264	15 - 278	AW020037, AI658843, AA342731, AA828039, AI400553, and AJ010597.
HFSAX51	2239	572815	1 - 399	15 - 413	AA342635, and R37508.
HFSBF09	2240	573315	1 - 403	15 - 417	AA343192.
HFSBG31	2241	504368	1 - 306	15 - 320	AA343240, AA343241, and AC007688.
HHEAA27	2242	575258	1 - 489	15 - 503	AI537538, Z83822, AC006285, and AC016025.
HHEAM44	2243	726856	1 - 596	15 - 610	AA489589, AB022537, and AL031228.
HHEAW46	2244	718120	1 - 572	15 - 586	AW262813, AW411169, R68959, and AI380261.
HHEBS24	2245	858417	1 - 306	15 - 320	
HHECK11	2246	924982	1 - 223	15 - 237	
HHECK33	2247	871375	1 - 232	15 - 246	I31887, and I31888.
HHECM01	2248	916178	1 - 429	15 - 443	AA586433, H81732, AI049701, H71738, AA878407, AI884861, AI002762, AA021139, AA320105, AA515929, AI564301, AI699049, F07564, R93854, AA074351, AA598608, AA857812, AI004740, AA721998, AI255004, AI255015, F25640, AA814719, AA351808, AI143653, AL042869, AI065043, AA736713, AI280574, AI251576, AI306232, AA326904, AA729373, AI583466, F16409, AI279417, AA468923, AI869786, AA326452, AA454504, AA846923, AI805261, AA128969, AW274191, AI246192, AA809125, AA811954, AI733647, AI904944, AI914713, AI880889, AI733662, AI590404, AA324088, AA218631, AW381823, AI865980, AA313133, AA326330, AA507526, AI282479, AA484892, AW190484, AI567391, AA584484, AW238712, AI289396, T49933, AA595656, AA492105, AI983047, N20173, AA374797, AI479068, F35097, W44359, AA720582, AW328331, AA503298, AI921491, AA405726, AA558404, AW166920, AI610737, AW128881, AA652059, AF003626, AC004999, AC002554, AC007193, AC006008, AC004975, AC005998, AC006530, AC005625, AF124730, AF165926, AP000066, AP000280, AC003964, Z95703, AC005697, AF024534, AP000039, AP000107, AL110502, Z73963, Z93023, Z98950, AL133494, AP000224, AP000086, AP000045, AP000113, AF053356, AC005003, Z84477, AC005412, AL049780, AC007055, AC005086, AL031277, AC006137, AC005237, AL133163, AL031666, AL050308, AC007680, AC009247, AC009275, AP000314, AC004948, AP000194, AC005193, AC006130, Z82189, AC006538, AC004814, AP000153, AL132987, AC004782, AC005237, AC002039, AC004020, AC004814, AP000153, AP000011, AC004020, AC002039, AC005839, AL049869, AB026899, AL031885, AC007536,

HHECM66	2249	781893	1 - 375	15 - 389	Z83822, AC005620, Z83826, AC005380, Z97183, AC004743, AL022323, L47234, AC006146, AL133353, AL049779, AC000085, AL022163, AC005225, AL031284, AL109758, AC004997, AC005393, AC004241, AF111168, AC005829, AC004882, AL034430, AL021393, AL022322, AC005544, AC002401, AB015355, AC006529, AC005585, AC005594, AC004963, AC007051, AL133448, AC004804, AC005203, AP000359, AL049589, AC006111, AC004967, AC007919, AL109798, AC005529, AC004650, AC004778, AC002310, AC006141, AB023178, AC002314, AC000088, AC002350, AC006071, AL049795, AC006480, AC005358, Z81364, AC003965, AC005763, AC000071, AF048990, AC002477, AD000671, AC002347, AC002128, AC002390, Z82184, AP000503, AC009784, U73637, AL023575, AL021546, AC003663, AC002563, AC004797, AC003098, AC005736, AC004789, AL031311, AL133371, L78810, AC004234, Z83844, AC002455, AC002996, AC004832, AC006581, AC006487, AC007278, AP000553, Z82097, AP000252, AB022785, AP000212, AP000134, AL008635, AL035587, AP000031, AC005058, AC005480, Z95152, AL049636, AL022333, U82696, AL049538, AC005369, AP000111, AP000043, AC004837, AC004862, AC006372, AP000504, Z29373, AC002527, AC004648, AC005726, Z97989, AL133355, AL049874, Z97196, AC004520, AL049540, AC004674, AL117337, AC006432, AF205588, AC003109, AL121653, AC002351, Y11107, AF015416, AC000115, U07561, AC002511, AC004223, AC002395, AC002195, AC005581, AC004985, AC005895, AC004938, AC005099, AC004099, AP000270, Z69890, Z94056, and AP000500.
HHECO01	2250	915285	1 - 311	15 - 325	H63677, and AL020997.
HHECR08	2251	959125	1 - 565	15 - 579	AF039241, T07305, AC004150, AF039691, AF132608, AF207748, and AF006602.
HHECT58	2252	973110	1 - 430	15 - 444	AI913928, AA480258, and AA493192.
HHECT59	2253	858407	1 - 517	15 - 531	AW079676, and AI291307.
HHECT70	2254	753842	1 - 147	15 - 161	AA356150.
HHECX82	2255	915913	1 - 523	15 - 537	AL042096, AL040576, AL040768, AL038532, AL046850, AL041577, AL043570, AL041459, AL043848, AL043814, AL038983, AL039316, AL043923, AL044064, AL042135, AL043845, AL040052, AL041374, AL046392, AL043627, AL041523, AL041730, AL040148, AL040082, AL044272, AL040329, AL040294, AL040090, AL040263, AL044187, AL044199, AL040458, AL045990, AL041635, AL041752, AL038838, AL045920, AL041602, AL043492, AL044165, AL043775, AL040332, AL040255, AL040839, AL043677, AL040745, AL045684, AL040617, AL044186, AL040285, AL040510, AL040625, AL045817, AL041142, AL040168, AL044037, AL040322, AL046330, AL041051, AL041292, AL040119, AL047036, AL041238, AL047183, AL040322, AL047219, AL039915, AL043612, AL041197, AL043537, AL047170, AL047057, AL044274, AL045753, AL040253, AL041131, AL039360, AL037727, AL040529, AL041186, AL044227, AL049018, AL045725, AL040553, AL045857, AL041227, AL049018, AL045725, AL040553, AL038822, AL037436, AL041159.

AL037323, AL046327, AL049069, AL040472, AL039744, AL041955, AL046147, AL040444,
AL040370, AL039938, AL046994, AL040414, AL040571, AL037335, AL046914, AL041346,
AL045671, AL041168, AI142134, AL041133, AL041140, AL040238, AL037343, AL041096,
AL041278, AL041358, AL047012, AL037341, AL080031, AL040463, AL079878, AL037295,
AL040155, AL046150, AL039432, AL040464, AL037443, AL046360, AL046097, AL045989,
AL041098, AL041163, AL045994, AL043538, AL041324, AL041210, AL040149, AL042712,
AL040621, AL040075, AL041277, AL041086, AL044162, AL041296, AL043496, AL043941,
AL041233, AL037279, AL040193, AI525431, AA585101, AL043440, AI525556, AI540967,
AI541365, AL038761, AI541374, AL041246, Z30131, AA585476, AL079852, AI541535,
AI541514, AL045784, AA585439, T23957, R29445, D61254, R28735, T41289, AL044529,
AI546999, AI541523, AI557731, AI546891, AL047131, R29177, AI547039, AI525306, AI526073,
C16300, T11028, Z28355, AI557262, AI525320, C16305, AI541307, AI526140, AA585453, AI541390, AI557787,
T23985, AI557262, AI525320, C16305, AI541307, AI526140, AA585453, AI557799, AI546828,
AL044125, AI556967, AL041347, AA174170, AI535639, AI525316, AI557799, AI546828,
AI541013, D57491, AI546875, AI541508, AI546855, AI536138, R29218, AI541534, AI557238,
AI525328, AI541510, AI526184, D55233, AL045211, AI526187, AI541345, AI526194, AJ239433,
D57186, C15189, AI541205, C14723, AI557734, AA585155, AI557796, AI541509, AI526196,
AI525653, AA585356, AA283326, AA585434, AL044227, AL036230, AI535660, AI557727,
R28895, C16293, AI540920, AF082186, AR038762, AR062871, A85395, A85476, AJ244004,
AR062872, AR062873, A25909, A98767, A20702, A93963, A93964, A43189, A43188, A20700,
A91750, Y16359, A84772, A84776, A84773, A84775, A24003, A81878, A64973, I15353, E14304,
AR054109, AR067732, A86792, A58522, D78345, AJ244003, A81878, A64973, I15353, E14304,
I44516, E16678, A58524, I25027, A58523, I26929, I44515, I26928, I26930, I26927, AR009151,
A98420, A98423, A98432, A98436, A98417, A98427, AJ244007, AR009152, E12584, A90655,
X83865, A68112, A68104, AJ244005, AR017907, AR017907, AR038855, E03627, I63120, A93445, I44681,
A91754, I15717, U94592, I15718, I48927, I08395, X81969, M28262, I13349, AR068507,
AR068506, A60212, A60209, A60210, A60211, A18053, A18050, A23334, A75886, I70384,
A60111, A23633, I08396, AR007512, I05558, D50010, I06859, A02712, I84553, I84554,
AR031566, A77094, A77095, AR031374, I00682, A92133, A95051, A49700, A38214, A35537,
A35536, A11624, A11623, E00609, I18895, A02136, A04664, A02135, A04663, E13740, A11178,
E01007, A10361, AR043601, A11245, I91969, AR031375, I03331, E12615, A02710, AR035193,
A07700, A13393, A13392, I62368, AR031488, I13521, I52048, A27396, AR027100, I49890,
I44531, I28266, A91965, AR068508, AR068510, I21869, AR068509, I08196, A70040, A82653,
AF149828, E16636, A95117, AR038066, A93016, A24783, A24782, I58322, I58323, I05488,
A60977, Z32836, A83642, A83643, I01995, A60961, I61310, A29109, A32111, I08051, I60241,
AR036903, I60242, AR028564, I66488, I66489, AR002333, I01987, A20699, I66490, I66491,
I66492, I66493, E00696, I66481, A60985, E00697, A32110, A60990, I66494, I66495, A60987,

HHEDB31	2256	697806	1 - 589	15 - 603	166482, 166485, AR027319, A47368, 107249, 166483, 166484, A91752, E03813, 166498, 166497, 166496, A91751, 166487, 166486, 119516, 119517, A06419, A21892, 119517, AR027318, 108776, AR008429, A23997, A83151, A68114, A95096, A63954, Y09813, A95106, A95105, AR027099, A63067, A51047, A63064, A21895, AR035975, AR035977, AR035976, AR035978, A05160, A08030, A20502, AR003585, 163560, 163561, 163563, 125041, A76773, A22413, AJ230935, 156772, 195540, A63072, A89633, A89634, A58521, AR020969, AR051652, AR051651, and X07299.
HHEDH57	2257	665762	1 - 655	15 - 669	T70593, AA484366, AI811076, AA658101, AA452879, AI261932, AI371165, N55560, AI863180, AI111171, AC005523, AC007193, AC004084, Z83840, Z98742, AL133245, AL049843, AC002116, AP000510, AL022396, AL021394, and AL096701.
HHEDJ94	2258	906876	1 - 509	15 - 523	W19045, N57242, N41553, and AC000119.
HHEDM03	2259	923908	1 - 448	15 - 462	R80434, AA531428, Z82215, and Z95114.
					AA553409, AI762528, AA167656, F16848, AAS93168, AW103030, AI925065, AI823705, H12857, AI824476, AW440368, N41775, F30650, W45416, AA993636, AI025930, W02497, AA828592, AW088631, AC005015, AC004859, AC004000, AC006271, AL133353, AC005288, AL008719, AP000552, AF207550, AC005940, AC005911, AC004821, AL031848, Z81364, AC004087, AC002456, AL022163, AL035071, AC004686, AC005695, AC000025, AC005330, AC002565, AP000167, AP000556, AC005696, AL035089, AC005859, AP000502, AC005041, AL031230, AF135187, AC005696, AL049569, AC008372, AF047825, AF134726, AB023059, AC007878, AC005612, AC005519, L78810, AL049869, AC002544, AL049694, AL035086, U80017, AC005484, AC006449, U73169, AL035587, AL050307, AC002347, AL049839, AL031311, AC002316, AL049780, AF111167, AL109952, Z93241, AC007226, AC004832, AC002350, AL050318, AC005203, AC006960, AP000122, AP000509, Z97056, AC007934, AC010170, AC005531, AL034420, AC006111, U95742, AL031685, Z99716, Z68223, AL022316, AC005089, AL022326, AP000359, AC003025, AC002425, AC005362, AC007551, AC000159, Z85987, AC006285, AL121578, AC004583, AL022345, AC006538, Z95152, AC007216, AC012627, Z83822, AF139813, AP000326, AL109798, AC005846, AL079340, AC005736, AC004797, U91321, AC007160, AC004999, AP000113, AP000045, AC007041, AP000169, AP000054, Z84484, AL023803, AL023553, AL049776, AP000300, AC004228, AL023807, AC005180, AC004520, AC005913, AC007536, AC005567, AC005527, AC006121, AC005399, AF036405, AC005839, AC005529, AC007055, AL009181, and AL035422.
HHEDN93	2260	731067	1 - 360	15 - 374	AI279905, AI859460, and AA353599.
HHEDO53	2261	973320	1 - 59	15 - 73	
HHEDO74	2262	463250	1 - 432	15 - 446	AA975530, AI376755, AA931603, AA830053, AA912944, AA926705, AI445635, and AA954467.
HHEDP88	2263	878759	1 - 371	15 - 385	AA297299, AI990951, AA412438, AA150262, AA937163, AA757561, N32544, AII26496, AA872939, and R61273.

HHEDR27	2264	791847	1 - 563	15 - 577	U63127.
HHEDW03	2265	923340	1 - 421	15 - 435	
HHEDW58	2266	735609	1 - 509	15 - 523	AL132712.
HHEEC07	2267	952455	1 - 2410	15 - 2424	AW271777, AA418212, AW026172, AW080197, AW150080, Z99393, AW296033, AI738581, AA452203, AA418041, AA028164, AA035728, AW138718, AW027368, AI861850, AI149306, AA194725, AA845357, AA521437, AA394270, AW003395, AI961396, AA476994, AI815175, AA621790, AA292791, AI917710, AI580942, AI831206, AI422238, AI337202, AI684220, AI758685, AI769662, AI363149, AI372022, AA149978, AI459301, AI916905, AA426479, AI090412, AI333285, AA195566, AA477023, N26319, AA453007, W79139, N80051, W74464, N27382, W17034, AI536804, AI336594, H83596, AI524485, AI092161, AW087165, AW439123, AA829164, AW192237, AA765990, AI803792, AI253581, AW196349, AA160311, W07012, H96016, AI961237, AI915904, C16527, AI468579, AA379225, C16442, AI867613, T23879, AA918013, AI224581, AI224589, AA373431, AA639187, AW160880, AW161495, AI090929, N89775, Z99394, AW024050, D61727, H96017, AI620764, N39762, AI814820, AA354795, AA476912, AI624528, N79269, D25568, AF064257, D38517, and AC004222.
HHEEC61	2268	741280	1 - 262	15 - 276	AF200630, AF201372, and AL022313.
HHEEK88	2269	702337	1 - 522	15 - 536	AI261872, AI679138, AI434461, AI379427, AI679712, AI963616, N98728, AI823643, AI769963, AA855094, AW294343, AA398469, AI341436, AI660067, AA970537, AI682850, C01626, AA401874, AI985926, R71022, AA772273, W31010, AA705992, AI862548, T26896, and AF055849.
HHEEL47	2270	719825	1 - 535	15 - 549	AI703499, AA494263, AI002734, AI054352, AI273847, AI580250, AI253382, AA502991, AA728812, AA811208, AA834707, AA594072, AA654661, AA452325, AA484143, AI674840, AI922930, AI205009, AI002941, AA862243, AA579205, AA747540, AA776646, AW327624, AA515728, AL079734, AA486559, AA442176, AW084246, R81017, AA436796, AA297538, AA582463, R62710, AL079734, AC044466, Z83840, AC004099, AL031177, AL049610, AL121825, AC004682, AL031685, AC007103, AC044655, AC006312, AC006543, AC006367, AC006137, AC007387, AC006544, AC004984, AC006531, AC005669, AL031428, AL031283, AL024498, AC006166, AC007214, AP000337, Z81364, AC006115, AL008633, Z99716, Z93783, AC005722, AC006365, AB023051, AC007225, AC006978, AL035420, AC003037, AP000961, AC007193, AP000512, AL031662, AC007842, AF011889, AB023048, AL034425, AP000511, Z97054, AC005190, AL034420, AC004217, Z84469, AC004552, U91322, AL035495, U91327, AC005146, AC002080, AL033525, AP000704, AL133445, AC003043, AL035697, AC005696, AP000513, AC009743, 297630, AL121769, AJ229041, U07563, AC008154, AC004605, AC002542, AC005682, AL009182, AC004685, AC007285, AP001052, AL133163, AL009174, AC005065, AC005212, U78027, AC007090, AC006271, AC003950, AC005701, AC005937, AC007707, AC007226, AC006538,

					AC005826, AC006379, AL035422, AL133246, AC004817, AL020997, AP000493, AL008710, AL049539, AC005094, AC009044, AC003035, AJ010598, AC009275, AC005353, AL031777, AC000118, AC006966, AL034350, AF196971, AC005015, AL022238, AC005050, AC005180, Z82179, AL049631, AC004231, AL031297, AC007384, AC005821, AL031054, AL049759, AL023283, AL022144, AC002072, AC005089, AL133245, AL121603, AC005200, AL022399, AL035405, Z93244, AL008583, AL031121, Z92542, Z86061, AL034549, AC005340, AC005953, AC000404, AL035403, AC004998, Z99127, AC004593, AC005011, Z82208, Z85995, AC004152, AC004526, AF064860, AL035246, AC007308, AC003108, AJ010597, AC005005, AC003669, AL109759, AC005539, AC006021, AC008041, AC004594, U52111, AL049872, AL008715, AL031767, AC005358, AL049776, U91326, AC005066, AC006536, Z95333, AC004832, AC005747, AL035410, AL109827, AP000008, AC005154, AL021391, AC005933, AP000252, and AP000134.
HHEFB29	2271	690073	1 - 532	15 - 546	AW402864, AC005756, AL096767, and AC000119.
HHEFB73	2272	947568	1 - 432	15 - 446	AL039087, AL037259, AA362688, AA362689, T29199, AA362690, A49045, I07209, AR067734, I07249, AR068508, AR068510, AR068509, A63954, I09267, I09270, I09268, I09269, A49701, I09252, I09251, A29109, A32111, AR068551, A23373, AR068550, A94048, A94061, AR035224, A94046, A94054, I58322, I58323, E01324, I08638, A27169, A27170, A39929, A83151, AR038307, AR038321, AR016495, I66495, I66494, I66497, I66496, I66486, I66487, A93936, I91969, Z96177, E01619, E01239, E01561, A92081, A92080, A92077, AR067733, AR038306, AR029418, A92078, A92079, AR029417, AR038320, AR027319, A91752, A91751, A70359, AR067731, AR027318, AR054109, AR067732, AR038066, AR064436, AR051651, and AR051652.
HHEFK12	2273	966292	1 - 317	15 - 331	
HHEFL47	2274	973094	1 - 356	15 - 370	
HHEFZ58	2275	735615	1 - 366	15 - 380	AA010070, and AI870529.
HHEGA66	2276	969467	1 - 247	15 - 261	AL022318, and AL031846.
HHEHC74	2277	974406	1 - 725	15 - 739	
HHEHD94	2278	964103	1 - 306	15 - 320	AA314262, and Z84466.
HHEHU73	2279	923895	1 - 432	15 - 446	
HHEHW78	2280	973140	1 - 579	15 - 593	AC006468.
HHEHI19	2281	973230	1 - 512	15 - 526	
HHEJH30	2282	961974	1 - 536	15 - 550	AW277207, AW157157, AI816301, AW277157, AW156950, AA313026, AA152106, AI313177, AW163128, AW161415, AI382960, AI201561, AA773272, AA826520, AI267630, AW081919, AA731178, AA017675, AW390380, AI222064, AW390751, AF180920, AF159159, and AF030091.
HHEJY91	2283	974407	1 - 521	15 - 535	AA904211, AW304580, AA515728, AA833875, AA833896, AA526099, AA515351, AI733856,

AI923451, AI635028, T74524, AI732789, AI078409, AA644090, AI813783, AA602906,
AI754653, AI923458, AI587467, H07953, AI744830, AI870453, AA825827, AW028943,
AA832145, AI612142, AA570740, AA483606, AW243793, AA536040, AA613624, AI821355,
AI192440, AI040051, AA457637, AW270258, AI690497, AI583252, AI523316, AI610941,
AA084609, AA487475, AI669589, AA622801, AA568204, AI860751, AA410788, AW410354,
AI445934, AW088656, AA572813, AI499954, AW338860, AA713705, T07974, N23504,
AI457596, AA225890, AA679194, AI962030, H69661, AI819994, AI251576, AA362183,
AI821768, AA492264, AW300749, AI537397, AI858814, AI493264, AI628224, AA578621,
AW021083, H68343, AI792304, AI821200, AI290311, AI925869, AI362415, AI791475,
AI690750, AI754170, AI828275, AI053978, AA228778, AW069357, AI753849, AW075729,
AA483256, AI360558, AI523839, AC008498, AC002476, AC006511, AC004605, AC003037,
AC005544, AC003043, L47234, AL022336, AC009247, AL031846, AC007263, AC005529,
AC005839, AL031432, AC002301, Z94056, AC007934, AC005015, AL109798, AC007421,
Z83840, AC006441, AC000041, AL035398, AL035420, Z98304, AF047825, AC004242,
AL133448, AL049780, AL133243, AL022320, AF196972, AL031120, AC004491, AC004019,
AC002425, AP000355, AP000212, AP000134, AC005971, AC005200, AC007637, AC007664,
AF165926, AC005082, U62293, AC004822, AL132712, AL109963, AC005969, AC000025,
AL021154, AC004526, AC005057, AL049831, AC005231, AC005377, AL096766, AC004148,
AL049569, AC012627, AC005330, AC008040, AL031733, AC002549, AC006064, AL031662,
AC003963, Z86090, AC004821, AC005821, AP000032, Z82244, AC005488, AC008372, Z83844,
AC005480, AC005921, Z99128, AC004646, AC006333, AC005486, AC007041, AL022394,
AC006017, Z85987, AP000704, AC004834, AC005914, AF111168, AC007182, AC005089,
AC004797, AC002119, AL139054, AC007546, U91321, Z84487, AC003669, AL049869,
AC003982, AC007277, AB023060, AF134726, AC009028, AC004195, Z97832, AC002400,
AC004263, AC006111, Z98884, AC008018, U91326, AC016025, AC007283, AC006530,
AC005049, AC005519, AC007055, AC004685, AL079342, AC000353, AC005237, AC000035,
AC002352, AF001549, AF196779, AC007630, AL031597, AL049636, AP000008, AL022069,
AC004832, AC004841, AL024507, AC005527, AL133163, AC007371, AL121603, AL022316,
AL031289, AL034423, AC007537, AC007242, AC002072, Z82217, AC002551, AC004662,
AL021579, AC004858, Z83845, AC005011, AC006210, AC004477, AL008725, AC007938,
AC003029, AP000510, AL031659, AC006372, AC004156, AL109952, AC005264, AC007845,
AC007191, AC002128, AC007312, AC004156, AL109952, AC005566, AC007050, AC007227,
AC006515, AL031589, AC005902, AC011311, AC007193, AL050307, AC005332, AC005291,
AF196970, AC007536, AC005520, AC006121, AP000346, AL035685, AC007690, AL109801,
U78027, AL109865, U95740, AL035587, AC007731, AF042434, AC005500, AP000503,
AC002126, AL049692, AC007542, Z49258, AB020861, AC006449, AC005696, AC003036,
AC004099, AL023876, AC004447, AB002059, AP000047, Z84469, AC004033, AC003108,

HHEKG10	2284	961957	1 - 399	15 - 413	AL096701, AL021878, AE000658, AC004024, U85195, AP000151, AC007766, AF038458, AC005581, AC008132, AL031295, Z93848, U91318, AP000115, AC006285, AC007993, AL117351, AL049867, AF129756, AC005859, AC003046, AP000252, AC005585, AL035530, AP000103, AC006062, AP000694, AC005726, AC008044, AC005412, AC016830, AL049795, AC007425, AL049761, AC006953, and AC004835.
HHEKJ20	2285	918032	1 - 214	15 - 228	
HHEKJ27	2286	858384	1 - 478	15 - 492	
HHEKK06	2287	933849	1 - 459	15 - 473	
HHEKP61	2288	913413	1 - 1448	15 - 1462	AA679016, AW408019, AA251937, AW407984, AI623302, AI431307, AI431316, AW392670, AI432644, AW372827, AI791349, U46349, AI432653, AI431243, AW081103, AI432655, AI432654, AI432650, AL042433, AW384394, AL134536, AW363220, AI432661, AI431255, AL042551, Z99396, AI432677, AI431337, AL119401, AI432651, AI431230, AI431328, AI431310, AI431312, U46351, AL119355, U46345, AI492510, AI431347, AL119497, AI431358, AL039912, AI432657, AI431354, AI432649, AI432647, AI432675, AL119483, AI431247, AI432643, AI431248, AI431330, AI432662, AI432665, AI492519, AI431314, AL037205, AL035530, AR066494, AF019249, AB026436, AR060234, AR054110, Y17793, A81671, and AF064854.
HHEKS53	2289	973233	1 - 449	15 - 463	AA338228, AA599423, AI289850, AI275183, AA584125, AI583291, AI571543, AL031293, AC005207, AL109758, AF111168, AL034402, AC005183, AC005348, AC005790, AC005229, AF134726, Z97630, AL049836, AL022316, AC004024, AC006487, AC016027, AP000503, AC016830, AB009667, Z83838, AL031228, AC005821, Z98743, AC005839, AF064860, AC004820, AC005291, AC005863, AL096706, AC004865, AC007324, AC007917, AC008101, AC004079, Z84483, AC008079, AF111167, AL021154, AP000098, AL034423, AL031311, AC005318, AC004000, AL022312, AD001502, AC005482, AC005399, AL022726, AC004020, AC007227, AL049764, AL031053, AL121754, AP000355, AC004805, and AC006536.
HHELD03	2290	868495	1 - 883	15 - 897	
HHELD11	2291	974419	1 - 172	15 - 186	
HHEMA34	2292	704035	1 - 354	15 - 368	H09835, and R61607.
HHEMA65	2293	719229	1 - 286	15 - 300	
HHEMD28	2294	858303	1 - 371	15 - 385	H66688.
HHEMK21	2295	670784	1 - 443	15 - 457	AA150780, AA341445, H65527, N28990, AA972976, AA359399, T55030, AA287792, AC009330, AC009542, AC003689, and AC003678.
HHEMN76	2296	752947	1 - 437	15 - 451	
HHEMO91	2297	790100	1 - 257	15 - 271	
HHEMQ56	2298	858289	1 - 363	15 - 377	AJ230802.
HHEMQ58	2299	952989	1 - 508	15 - 522	AL109748, and AL078614.

HHENC18	2300	666335	1 - 412	15 - 426	
HHEND28	2301	468911	1 - 500	15 - 514	AL109827.
HHEND45	2302	919630	1 - 338	15 - 352	AC002390.
HHENE18	2303	806606	1 - 500	15 - 514	
HHENE38	2304	662972	1 - 432	15 - 446	AC004585.
HHENE47	2305	720255	1 - 382	15 - 396	
HHENG31	2306	917904	1 - 622	15 - 636	AI266255, AI302710, AA505091, AI076214, H82739, N30416, AA758853, H83614, AI362648, N79746, T77931, AW013896, T77853, and AL031291.
HHENH93	2307	691023	1 - 377	15 - 391	AA595183, H29208, H29209, and AF102777.
HHENO53	2308	709078	1 - 289	15 - 303	
HHENQ16	2309	661841	1 - 547	15 - 561	
HHENR11	2310	966906	1 - 936	15 - 950	AW007450, AW021951, R56093, AI809818, AF118885, AC002468, AL109627, AC005004, AC005562, AC008273, AC005082, AL034555, AC004815, L44140, AC006023, AL133243, AC018633, AC006538, AL132712, AL080243, AC005839, AC007666, AC007041, AC006137, AL031983, AC007546, U85195, AC005703, AL132857, AC005488, AL009179, AC005563, AC005104, AC004019, AP000704, AC007738, AC005252, AL031595, AL008582, AC006077, AF043945, U07563, AL109963, AC007182, AP000295, AC006049, and AC008041.
HHENR78	2311	773537	1 - 417	15 - 431	AC005326, and AC004924.
HHENV38	2312	657383	1 - 401	15 - 415	AI990739, AI927951, AI989475, AI990284, AI082831, AW295986, AI380475, AA777280, AI350438, AI867928, AW194833, AI478440, and AI758120.
HHENZ86	2313	670837	1 - 436	15 - 450	
HHEOF20	2314	861457	1 - 347	15 - 361	T63737, and AC004755.
HHEOF58	2315	841978	1 - 483	15 - 497	
HHEOG17	2316	662948	1 - 342	15 - 356	
HHEOG67	2317	588154	1 - 326	15 - 340	
HHEOI18	2318	677891	1 - 381	15 - 395	AA976063, AI689977, AI291003, AA379679, AI796262, AA889834, AA147542, AA383327, AI857560, AA234045, R81076, AI924779, AA826483, AI368773, AA190557, AI689857, AI041119, AI703295, AI802472, AA349132, R25344, R23959, AI360000, W60453, AI557581, and AF048977.
HHEOJ10	2319	911814	1 - 450	15 - 464	AW385142, AW375056, AW062951, W19655, and AA452790.
HHEOL59	2320	588168	1 - 519	15 - 533	
HHEOX60	2321	734311	1 - 400	15 - 414	
HHEOZ17	2322	793087	1 - 393	15 - 407	
HHEPD46	2323	718950	1 - 550	15 - 564	AI653678, T60029, N58301, AW162128, AI859744, AI273990, N73203, AA506744, R85174, AA366676, AI879951, AA653291, R32162, AW166824, AI018726, R93026, AA811150, AA577719, M77867, AA744993, H78281, AW189401, AA737523, AA642823, AA632565.

AI671077, AI017733, AI709211, AW272389, N83628, AA614647, AA303054, AI445914,
AW151870, AA814878, AA354695, AI819391, AA402638, AI926728, AA340911, R83708,
H04195, AL039761, W61253, H48603, AI264579, AA493533, AA831345, AA774098, AI270280,
AI446127, AA778962, R76395, AI349130, W26972, AI310670, W76645, AI679871, AA354677,
AI804546, AA176809, AW277064, AI679294, AA601290, AA526413, AI904944, T51743,
AA713720, AI567676, N76251, AA719769, AA102737, AA501450, N70222, AA513189,
AA664924, R97635, AA525517, AW237905, AW020198, AA666138, W24312, AI733523,
AI918575, AI469468, AA230155, T59956, AA558404, AI075149, AI627917, AA309457,
AA515727, AW008217, AA725642, AA077637, AW247338, AI872229, W96277, H83136,
AA376358, W04964, AI523540, AW167202, AI306624, AI096738, AI871691, AI241637,
AA020873, AC006084, AC004820, AC003051, Z83844, Z68128, U52112, Z81364, AC005393,
AC005482, AC007371, AC005031, Z93096, AL035413, AC002470, AF169122, AC010077,
AL031255, AC004841, Z97196, AL031666, AL021154, AL009172, AF095901, AL021578,
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AC004777, AC006277, AP000349, AC002117, AL031662, Z93244, AL096712, AC005702,
AC005527, AC006368, AC005237, AC005529, AP000501, AC007390, AF031078, AF030876,
U80017, AC005922, AF109907, AF001551, AL022334, AL034548, AL133448, AC005737,
Z86001, AC002550, AC004913, Z94055, AC007917, AC004650, AC005288, Z83840, AL031848,
AL024498, AC005682, AP000553, AC006111, AL139054, Z82202, AF196972, AL009179,
AL096791, AC007938, AL049553, AC005081, AC005015, AF001550, AL049849, AC006486,
AC004134, AC004815, Z98044, AC005295, AF064861, AC004966, AL135744, U91322,
AC002302, AC005559, AC004530, AJ009610, AP001060, AL035462, AC005363, AC005606,
AC004079, AP000347, AL031589, AL023653, Z97056, AF207550, AF111170, AP000346,
AC007688, AC005921, AC005829, AC005409, AL022238, AC002045, AC005320, AL049839,
Z82193, AC004812, AL031985, Z94802, AC004983, AC004496, AC004645, AC006388,
AC008115, AC004890, AC006111, AC005257, AP000502, U91318, AF134726, AC006130,
Z97183, AL021394, AB023050, AL031291, AC012099, AC005082, AP000511, AC003037,
AL049636, AC006541, Y12855, AC002984, AD001527, AC002558, Z93241, AL034402,
AL034429, AJ006996, AC007263, AC005899, AP000306, AL031230, Z99716, AC002306,
AP000047, AL008712, AL022315, AP000115, AC005244, AL031117, AC007384, AC006079,
AC006112, U85195, AC005539, AC005703, AJ239318, D87009, AC003043, AC007880, Z80232,
AL022719, AC002107, AC002106, AL031730, AL022311, AC004771, AC004596, AC005102,
AC004016, AC004891, AP000345, AC003007, AL096801, AC007376, AC005019, AC005632,
AP000308, AC007792, AC003047, U51561, AC005602, AL049747, Z75890, AC006930,
AC005932, AC005551, AC008989, L47234, AL096703, AP000048, U95739, AC003692,
AC002316, AC002126, AL034421, AC003104, AC005911, AL022327, AC005231, AC005377,
AC005004, AL023281, AC004702, AC002310, AL132712, and Z82214.

HHEPD73	2324	966828	1 - 548	15 - 562	AW102944.
HHEPF31	2325	858269	1 - 355	15 - 369	
HHEPG15	2326	659664	1 - 548	15 - 562	AF150253, AI743143, X85654, and AF161548.
HHEPK28	2327	686489	1 - 342	15 - 356	
HHEPM73	2328	683270	1 - 414	15 - 428	AA505298.
HHEPN44	2329	716494	1 - 928	15 - 942	R10189, AI984168, AA583386, AW020198, AL042667, AL042670, AI917132, AI003469, AI915081, AI310670, AA324108, AW247338, AI612070, AA614254, AI611533, AA224889, AL044701, AI310787, AA904211, AI889995, AI828721, AI653999, AW082104, AA468505, AA182873, AA487209, AA644090, AI962030, AI349130, AA613624, AA557945, AA525331, AA640104, AA728954, AI792092, AI821056, AI821805, AA493808, AW270385, AI732720, AA551519, AA232928, AA230025, AI653776, AI734119, AI114494, AL120282, AA640305, AA653139, AW020094, AW021015, AA259267, AI567676, AC005295, AC005067, AL035681, AL022316, AC003108, AC002351, Z99714, AC004019, AC005102, AC002554, AL031281, AC003041, AC005520, Z95115, AC006285, AC005632, AC005972, AF001549, D88268, AP000553, Z95116, AC004448, AL033527, AC005280, AD000092, AP000501, L44140, AL009181, AC007510, AL133448, AC004859, AC005004, AC016025, AP000555, AC005529, AC009498, AC005527, AL121658, AL023879, AC009247, Z93244, Z85986, AC004913, AC005228, AC005288, AL031311, AC004834, AC005081, AP000503, AC005250, AC005231, U89335, AL133246, AC005808, AP000263, AC004263, AL135960, AJ131016, AL121655, AC004098, AC005670, AL022721, AC005089, AL050307, AP000104, AC007919, AF207550, U52112, AL049758, AC002347, AL008706, U07561, AC004601, AC002300, AC004000, AL121754, AC006965, AP000036, AF111169, AL049692, AC006511, Z97056, AP000133, AC005900, AC004526, AJ003147, AL132992, AL035684, AC002310, AC006449, AP000691, AC005684, AC002091, AC005277, AL096791, AL031230, AL049757, AC007240, AL031289, AC005011, AF053356, AC006347, AP000688, AC005519, AL139054, Z95113, AC006372, AC005071, AF196779, AC004876, AC006006, AC005412, AP000116, AF134726, AC005409, AC005880, AL078581, AC004967, AC005015, AL034400, AL022326, AC005484, AC004962, AL121748, Z93241, AC004973, AC006468, AC005746, AC006014, AC007938, AC005006, AC004897, AP000511, AC005618, AC004797, AL008718, AL121653, AC005488, AC007055, AC003109, AL022329, AC005300, AL133163, AL049636, AL109967, AC005924, Z73979, U95739, AC004929, AC005595, AC005933, U78027, AC004125, AC005856, Z94044, AL020993, AC006241, AC005535, AC006277, Z75407, U78027, AC002126, U47924, AL133353, AL031432, AC005057, AC007536, AC005086, AF205588, AC002126, U47924, AL133353, AL031432, AP000696, AC007436, AC005694, AP000947, AC003956, AC005013, AC002544, AC005041, AL096677, AF109907, AL049835, AP000045, AP000113, AC008372, AL121595, AC003030, AL049765, AC004805, AL031602, AL035588, AL049694, AL034418, AL035422, AC007546, AC005940, AC004815, Z83840, AF015416, AC006064, AC002477, AC003042, AL109865,

HHEPR14	2330	869381	1 - 640	15 - 654	D00591, AC004820, AC004695, AL049631, AP000210, AP000132, Z98743, AC003043, AC006946, AL031670, U91325, AC004150, AC006023, AC005088, AC006480, AC003101, AL049780, AL078639, AL008715, AC007899, AL035412, AC006597, AC005726, AL008710, AL049760, AL034379, AP000108, AP000040, AC004817, AC004257, AC002430, AL133396, AC005593, AL049874, AC005914, AC004787, and Z82178.
HHEPS91	2331	493744	1 - 552	15 - 566	W86315, and AI674685. AA021393, F04252, AI133083, AI783911, AA557945, AA535216, D44672, AA773463, AI143051, AA602017, AI355246, AA488746, AA828637, AI355559, AA676592, AA904275, AI249365, TS2772, AA484892, AW419389, AA649642, AA828834, AA533176, AA180056, AA601356, AI813957, AA069389, AI281818, AW089950, AI627917, AI753536, AW277109, AA745524, AI821716, AA568314, N95817, AI356440, AI620585, AA491423, AA355367, AA610433, AI635677, AI754293, AW028950, AI623764, AW104788, AI872503, AA579188, AI810584, AA744465, AA745470, AA744449, T47138, AI242502, AC004752, AC009275, AC007955, AC005229, AL049832, AC008009, AC005527, AC005529, AC002425, AC003108, AL031681, AC004019, AP000014, M13792, AC007386, Z99716, AC002543, AC007055, AL008582, Z83844, AC005180, AB020865, AC010205, AC004876, AC005409, AC000025, AC005510, AF001548, AC006312, AL049759, AL049869, AC007731, AF134726, AC007161, AL121603, AC005500, AC004984, AL121769, AL008718, AL121658, AC006449, AC005156, AC004655, AL033527, AL022320, AF019413, AP000212, AP000134, AC005089, Z98884, Z97196, AC005081, AC002456, AC007687, AL049776, AL117694, AF111168, AL133163, AL034417, AC005823, AC006511, AC005328, AC005971, AC009247, Z98304, AC000353, AC004067, AC007666, AC004796, AC006468, AC007376, AC008124, AC012627, AC005015, AC005899, AL021407, L78833, D87675, AC002432, AC006578, AC004859, AL021154, AC007216, AL035659, AC007688, AJ003147, AL121653, AL031074, Z84469, AC007263, U80017, AL135744, AP000030, AC002477, U91323, AP000501, AC000004, Z84467, AL050343, AC005722, AC002553, AC007367, AL096678, Z98257, AC008372, AL139054, AL022313, AF109907, AC007226, Z98751, AC002400, AP000141, AL049757, AC000052, AC006211, Z86090, AC005011, AL035249, AF205588, AC004895, AC007308, U91318, AC004253, AL022336, AC005962, AL031668, AC004821, AL096710, AL121655, AP000045, AC005519, AC006285, Z98949, AC007283, AC004106, Z93023, Z83822, AL024498, AL022238, AL034420, AL021395, AC005972, AC006536, AC004883, AC008040, AC007277, AC005041, AC007566, AC006536, AC005332, AC002350, U91322, AC005484, AC004832, AC006559, AC022721, AL031273, AC005209, AL009051, U52112, AC005291, AC005531, AC005358, AL022719, AF064858, AP000553, AC006121, AC000003, AF001550, AC005696, AC016025, AC004622, AC006077, Z97183, AC006059, AC008015, AC005746, AC002991, AC002470, AC008079, AC005874, AF134471, AL133246, AC005037, AL035423, AC003043.

HHEPZ10	2332	963715	1-155	15-169	AC005145, AL031672, AC004526, AL132777, AL121852, AC004598, Z82198, AP000349, U47924, AC005632, AL049830, AL034549, AC002312, U91326, AC002299, AL049874, AC004813, AC007371, AC005620, AC006023, AL035460, Z97056, AC007444, AC007540, AC005233, AC005535, AC005815, AL020997, AC002404, AC005288, AP001051, AC006080, AC003041, AC004659, AC009516, AF207955, AC005488, AL049576, AC006064, AL080243, AC006251, AC006160, AC002301, AC006597, AL080317, AC006132, AC004851, AC005049, AL133500, AC007676, AC003104, AC004263, AC003101, AC006241, and AL031594.
HHEQB17	2333	918056	1-408	15-422	
HHEQB47	2334	841899	1-464	15-478	
HHEQG21	2335	934680	1-457	15-471	
HHEQG45	2336	717303	1-306	15-320	
HHEQG52	2337	956214	1-191	15-205	
HHEQG72	2338	922619	1-329	15-343	
HHEQG75	2339	766960	1-387	15-401	
HHEQG86	2340	784752	1-375	15-389	Y17793.
HHEQH63	2341	744596	1-386	15-400	
HHEQI07	2342	952416	1-227	15-241	
HHEQI11	2343	966293	1-408	15-422	T89011, and AL047171.
HHEQI82	2344	728596	1-370	15-384	AA659367, and AA661891.
HHEQI89	2345	786607	1-173	15-187	
HHEQK01	2346	871911	1-582	15-596	AA489782, and AF129078.
HHEQO36	2347	707926	1-445	15-459	
HHEQP38	2348	709076	1-394	15-408	Z98256.
HHEQP83	2349	780397	1-676	15-690	AA720645.
HHEQQ47	2350	699160	1-428	15-442	AF104235.
HHEQS17	2351	662203	1-499	15-513	
HHEQU09	2352	755007	1-451	15-465	Z27104, AA947563, and AI123214.
HHEQV03	2353	923324	1-475	15-489	AA355773, and AA355926.
HHEQV39	2354	932851	1-873	15-887	
HHEQX60	2355	915561	1-453	15-467	AA353703.
HHEQY32	2356	698633	1-365	15-379	AL041364, AA581202, H22202, AA573189, AI623423, AI889612, AA130055, AI298936, AA688189, AA026119, AL046322, H82057, AA301758, and AL049795.
HHERA17	2357	858239	1-257	15-271	
HHERB03	2358	933271	1-422	15-436	
HHERB04	2359	854112	1-1070	15-1084	AA102072, AI124666, AA136417, AF169548, and AC004099.

HHERN11	2360	1 - 363	15 - 377	
HHERO39	2361	1 - 426	15 - 440	
HHERO95	2362	1 - 1324	15 - 1338	AI761092, AW088116, AI660060, AA460070, AI823894, AI377047, AA833746, AW022132, AI660032, AI573194, AA938309, AA741093, AW294514, AA856722, AA459978, AI635527, AA948449, AA767492, AA311065, AW183379, AI167213, AA621378, and AL133101.
HHERQ04	2363	1 - 504	15 - 518	
HHERQ50	2364	1 - 793	15 - 807	AA151636, AA478851, AI018742, AI335888, AI268195, AA479950, AI436179, AI268216, AA360626, AW362452, and AA021655.
HHERU77	2365	1 - 473	15 - 487	AW276744.
HHERV38	2366	1 - 440	15 - 454	
HHERX04	2367	1 - 643	15 - 657	AA749124, AW024899, AI738779, AW298129, AI936218, AI472304, AI418577, AI309755, AI081335, AI809820, AA016255, AA054132, AI024619, AA905716, H21932, AA256702, N79804, N77846, N77838, AI874019, AA872041, and AC004895.
HHESF07	2368	1 - 588	15 - 602	AI248073, AA235254, AI658612, and AA250935.
HHESG02	2369	1 - 316	15 - 330	Z73495.
HHESH33	2370	1 - 482	15 - 496	
HHESI92	2371	1 - 241	15 - 255	
HHESJ03	2372	1 - 569	15 - 583	
HHESK56	2373	1 - 534	15 - 548	
HHESN02	2374	1 - 390	15 - 404	AF085233, and AF169035.
HHESO94	2375	1 - 607	15 - 621	AF150222, and AF161351.
HHESP87	2376	1 - 671	15 - 685	AA598870.
HHEST60	2377	1 - 300	15 - 314	AL023584.
HHESU02	2378	1 - 490	15 - 504	AP000689, AC006312, Z84466, AL080243, AC005722, AF064861, Z83822, AF001549, AB026898, AL031311, Z84480, AL035681, AL096763, AC003071, AB003151, AC002310, AC005796, AC003101, AC005081, AC005049, AC004031, AP000499, Z82203, AL022336, AC004526, Z83847, and AC004448.
HHESU03	2379	1 - 671	15 - 685	AI929353, AA310170, and AW401881.
HHESU54	2380	1 - 412	15 - 426	
HHESU85	2381	1 - 324	15 - 338	AA804825, AA113301, AW264764, AI580548, AA130859, AA581238, AI805438, T66032, AA533703, AA578089, AW265073, AI963514, AW274078, AA494038, AA984263, AA630834, AA601318, AA341817, R42117, AA811489, AW402458, R64204, AL138271, AA486106, AA708021, AA069589, AA470544, AA059369, AA339011, R43218, AI057350, AI354862, AA628627, AA857296, AA814527, H46593, AW327868, AA584513, R15075, AA810200, AL009029, AC008134, AC006965, Z97181, AC004104, AP000018, AC004791, AC005881, Z97055, Z85996, U91321, AC004167, AL034548, AL023284, AC005067, AC004895, AC006211,

HHESV46	2382	935074	1 - 511	15 - 525	AC003042, AC008062, AC005620, AL021407, AL078472, AC002487, AL080245, AF038458, AF064858, Z83846, U52112, AC005184, AC007182, AF015720, AC005829, AC006050, AJ229041, AC007688, AC004752, AC004125, AC004934, AC003035, Z84814, AC005358, AL034417, Z98044, AC005598, AL109753, AL031665, AC006065, AC006120, AL009183, AL008729, Z93930, AC006454, AC005913, AC002300, AP000023, AC005666, AL133448, AP000511, U89337, AC005668, AC004381, AL008638, Z95115, AC005015, AL035457, AL096791, AL008720, AJ251973, AC004876, AC004938, Z83733, U95743, AC005736, AC004864, AC004887, AL049749, Z97353, AL022318, AL034549, AC004231, AC005102, AC003687, Z72006, AC004750, AC005820, AC006039, AC004816, AC004967, AF126403, AL035695, AL020995, AC010206, AC005177, AC005094, AC004805, AL117338, AC004962, AC008123, AC002302, AC007546, AC004991, AC003010, AC007993, AC005553, U07563, Z95114, AC007115, AL109984, AC006538, AC005224, AC005386, AP000216, AC004794, AC006040, AC016831, AC005295, AC007686, AC002351, AL034429, AB023054, AC007225, AC005220, AL031650, AC005831, AC007073, AC007157, AL096772, AP000265, AF015416, AC007773, Z82198, AL133445, AF130343, AC005808, AC005277, AC004663, AL049830, AL031767, AP000034, AP000101, AC009363, AC004659, AC005291, AC004584, AP000240, AL079342, AL109653, AP000208, AP000130, AC006162, AL031681, and AC002347. AA569179, AA299351, AI679759, AW238495, AI246061, AI054090, AI620266, AI298079, AI185394, AA856866, AA434346, T08386, AI114494, AA582746, AA192293, AA657910, AA768179, T06292, AL039309, AL037856, AI042373, AA741301, AI251241, AA527109, AI630894, AI284543, AI254770, AI251944, W96277, AI251034, AI251203, AI251284, AW128881, AI590404, AI250552, R35259, AA020873, AA579399, H43183, AI479068, H16875, AW408767, H24957, AA502688, AA846923, D82321, F08214, T41134, AA744095, AA662614, F37201, AI249853, T05617, AW019964, AA736713, AI207728, AI285493, AA878407, AI223626, AW303098, AW341882, AI889579, AI345394, AA484892, AI445373, AI348780, AL038977, AI671077, AI143653, AL036909, AA654535, AA484298, AI973173, AA363957, AA020882, AI707744, AA687542, C17540, AI884861, AI636734, AI078409, AI110685, H90845, AA827383, AW079737, AI439676, AA353168, AW303822, AI421755, AI124779, F17537, AA295893, AA480486, AA295899, AA682536, AI863279, AA410771, AA831919, H63220, AA469230, AA757426, AA714073, AA564256, AI678476, H58891, AI281401, AI860535, T65895, AA507637, AL137946, AI927261, AA244181, AW151549, AI619994, AI821641, AC006360, AC005084, AL049856, AC007655, AC005234, Z73900, AL122020, AL035458, AL132668, AC005768, AL096791, AL132641, AC004996, AC006317, AC006236, AL117338, AC005996, U80017, AC004820, AF205588, Z92844, AC005998, Z78022, AC004054, AC006343, AC005879, AC005993, AL117337, AC004815, AL021368, AC004382, AL078477, AL033525, AC005879, AB017602, AF029308, AC005050, AC004974, D83253, AC007537, U91319, AP000106,

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			15-765	
			15-232	
			15-382	
			15-648	
			15-733	

AA722372, AW440545, AI631119, AL038971, AL041706, AL046746, AA812281, AI110760, AA083046, T56253, AA410828, AW151713, N48230, AL048125, AA601157, AA633798, AW075511, AA359347, AA459749, AL135377, AL040382, AW245747, AA724333, AI963600, AW303196, AL119762, AI284640, AW301350, AI669615, AI963720, AB34443, AL119691, AL121235, AW274349, AW102811, AA564634, AI924251, AI791664, AW274346, AI270117, AI493236, AL046409, AI281881, AA503600, AW408707, AL037683, AL041690, AL038705, AA581903, AA478355, AA634889, AI956131, AW193265, AW021583, AI589230, N94311, AI368745, AI367371, AA584167, AI583283, AW238278, AL040921, AA580808, AA468022, AA579366, AI431303, AA806796, AW069625, AA623002, AA587604, AA507824, AW270270, AA491814, AW020992, AA372481, AA490183, AI732865, AA720702, AL046205, AI368256,

HHETA53	2383	858211	1-751	
HHETB42	2384	973127	1-218	
HHETC50	2385	927000	1-368	
HHETD13	2386	858218	1-634	
HHETE34	2387	974392	1-719	

HHETF07	2388	952218	1 - 321	15 - 335
HHETF94	2389	793420	1 - 424	15 - 438

AB50211, AW167374, AW438643, AA493708, AI919265, AA351056, AI613280, AI860020, AA714433, AA610491, AI708009, AA613227, AI085719, AI471481, AA521323, AI499938, AW405299, AA658362, AI355206, F36273, AI345518, AA488746, AW300625, AC004638, AC003692, AL080243, AC002549, AL121603, AC005527, AC004799, AC016025, AC006539, AC006312, AC002400, AC000085, AL050341, AC004686, AC005565, AC005919, AC002126, AC005529, AC004019, Z81369, AF049895, AL022726, AC008372, Z86061, AC007688, AC004490, AC004987, AC002451, AL079295, AC007363, AC005412, AL133245, AC005829, AL022329, AC005295, AC007298, AC005250, AC005740, AC007406, AC004765, U73638, AF124523, AC002996, U95742, AC006544, AC009330, AC002310, U47924, Z97054, AL022163, AP000553, AC002470, AC006208, AC004890, AC009247, AC006480, AC000358, U75285, AC005815, AC004967, AC003543, AC003958, AL031577, AL022316, AF207550, AC007666, AC000353, AC004963, AP000090, AC004861, AF001549, AL021391, AP000103, AC005037, AC007371, AL031681, AC002115, AP000557, AC006536, AL023284, Z85987, AC003693, AC008064, Z99916, AC007676, AL022326, AC007193, AC006948, AC010202, AC005632, AC005089, AC002404, AC002041, AL035089, AC002301, AC007546, AC004031, AC007565, AC006195, AC007226, D87675, AF111169, AL022166, Z99774, AC005411, AC009516, AC008062, AC007421, AC006059, AC004472, AL031848, AL049539, AC005696, AL008726, AC002429, AC007677, AC006449, AL096701, AL049776, D83253, AL023882, AJ003147, AL021878, AL023513, AC006965, AC008009, AL050318, AC006241, AC002456, AC000052, AC005335, AC007216, AC005763, AL049757, AC002059, Z98051, AL078593, AC005703, AC005839, AF088219, AC005562, AC007878, AL049709, AB020868, AC002064, AC002289, AC004979, AC006057, AC004854, AL049569, AC005940, Z69917, AL022722, AC003101, AC004703, AC005324, AC005067, AL023807, AL133396, AC004593, AC005520, AC006213, AC003029, AC007221, AC004931, AP000163, AC005822, Z84466, AL031785, AC004612, AL031733, AP000313, AF123462, AC006271, AC005844, AL109865, AL035460, AC003663, AC002994, AC006006, AC004025, AL139054, U82828, AC006960, AC004972, AP000252, AC003666, AC016831, AC002564, AC005913, AC006111, AL031276, Z93017, AC010197, AC000025, AC004230, AL009172, AC005971, AC005531, AC005911, AC004087, AC005291, AL109758, AL031662, AL035072, AL021939, AC007055, Z83844, AL031281, AP000050, AC000118, AC005102, AC005409, AL031730, AC004149, AC004650, AC005242, AC004771, AL033527, AC007308, AC004526, AP001053, AL122023, AC005229, AC004895, AF118808, AJ006345, AC002991, AL023581, AC002350, AC005666, AL021578, Z86090, AC006001, AP000217, AP000134, AP000212, AC005484, AC003098, AL022400, AC009399, AC002302, AC009248, AP000476, AC006211, AP000117, AC010205, AL024507, and AC005907.

HHETK07	2390	848748	1 - 1028	15 - 1042	
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HHETM92	2391	790879	1-435	15-449	AL031846, L81761, AC005288, AC006132, AF038458, AP000359, AJ236701, AL033521, AF109907, AL049793, AC004150, AL121658, AC010183, U47924, AC005768, AL049869, AJ246003, AL109952, AC004896, AB007869, Z95152, AC002420, AL022156, AL031683, AC004534, AL024474, AC001478, AC005209, AC004797, I34294, AP000271, AP000032, AC003692, AC004195, AP000402, AC006468, AC005562, AC007993, AC006046, AL008726, AC008116, X60459, AC005901, AC005971, AC005776, AL096702, AC005527, Z79996, AC006312, AC003013, AL031588, AC004741, AC005355, AL008582, AP000510, AC000031, AP001065, AC004139, AJ011930, AB023048, AC006111, AL133353, AL021395, Z85987, AC002492, U73636, U96629, AL031427, Z82173, AC006487, AC007551, AL022316, AC007227, AP000031, AC084887, Z15025, AL096791, AL031597, AC011594, AC008134, AC002418, AC005214, AF047825, U53331, Z98752, AC004895, AC004491, AC006538, AP000509, AC005913, Z84480, Z54147, U53331, Z98752, AC005033, AC009247, AC005046, AL031005, AC004099, Z98052, AL031589, AC005187, AC000075, AC005529, AC004263, AC005318, AC004196, AC000381, AC004596, AC006026, AC006379, AC007384, AF196779, AL021939, and S42653.
HHETQ54	2392	908567	1-713	15-727	AC006270.
HHETR21	2393	936252	1-706	15-720	AI885183, AA903775, AI554613, AI291522, AI916978, AW135652, AA393862, and X79828. H25211, Z44055, AA452343, AA297470, AA366087, AA297673, AA135318, AW161368, AW402965, N46057, Z41875, R59956, AW005173, AA504590, H23102, AL042001, AL041998, and AI865194.
HHETR94	2394	793434	1-572	15-586	AC005158.
HHETS04	2395	926997	1-1022	15-1036	
HHETU20	2396	858206	1-456	15-470	AC007225, AC006449, and Z77249.
HHETV35	2397	784894	1-210	15-224	
HHETX01	2398	915284	1-322	15-336	AL035079.
HHETY79	2399	774171	1-366	15-380	AA310882.
HHEUA62	2400	965709	1-850	15-864	AA312734, W23120, AA976304, AA297895, H49170, R76772, R34930, AA356611, AA205378, AA281670, AA352713, AA662069, AA354224, AA521488, AA714210, AW167245, AA448152, D50918, AC004913, and AB023622.
HHEUC31	2401	795268	1-772	15-786	AA132827, and AI905590.
HHEUC84	2402	788954	1-675	15-689	AI624024, AA307816, and AB018268.
HHEUE01	2403	915274	1-203	15-217	
HHEUE86	2404	784879	1-719	15-733	
HHEUE89	2405	786254	1-326	15-340	R94055, and AL136295.
HHEUP02	2406	918655	1-605	15-619	AL042433, AL134920, AL134524, U46341, AW372827, AL119341, AL134528, AL134518, AL134533, and AR054110.
HHEUT33	2407	952043	1-293	15-307	

HHEUY42	2408	918029	1 - 167	15 - 181	
HHEVT06	2409	933921	1 - 251	15 - 265	AI560063, and AC005696.
HHEVL35	2410	965644	1 - 145	15 - 159	
HHEVN07	2411	952041	1 - 350	15 - 364	
HHEVR07	2412	952070	1 - 414	15 - 428	
HHEVS63	2413	973213	1 - 564	15 - 578	AL043039, AL043019, AW392670, AL119497, AL119401, AL043037, AL119457, AL043205, AL042978, AL042980, AI142132, AW372827, AL042544, AL119399, AL134902, AL043033, AL119355, AL042614, AL119341, AL119391, U46346, U46351, AW363220, AW384394, AL119439, U46349, AL134533, AL043029, AL119443, AL119396, AL134525, AL134524, AL042551, AL119319, AL134538, Z99396, AL119484, AL119324, U46350, U46347, AL119483, AL134536, AL119418, AL119363, AL043099, AL119444, AL043003, AR054110, AR066494, AB026436, A81671, AR069079, and AR060234.
HHEVS95	2414	957950	1 - 393	15 - 407	
HHEVV64	2415	974520	1 - 630	15 - 644	AW084328, AA525807, AA578621, T51832, AW023111, AA219349, AA805795, F24745, AW265688, AI192440, AA654482, H60738, AI433131, AI446259, F30158, AA808982, AA613966, AA639282, AA668587, AA609826, AA621865, AW245354, AI049709, AI635440, AA584655, AP001053, AI049872, AC007371, U47924, AC005484, AF064861, Z83845, AC031291, AC003967, AC007283, AC002094, AC004686, AC007050, AC006443, AC005369, AC004257, AL109758, L78833, AC004832, Z98200, AC004460, AC005839, AL022721, AL022320, M87889, AL022318, AC006316, U73169, AC006211, AC005088, AL024498, AC004890, AF031078, AC005081, AL109984, U96629, AF030876, AC005041, AC005588, AC005913, AC003108, AC008040, AC002128, AL121595, AC007314, AC006277, AC005971, AC005046, AF030453, AC004084, AC006088, AC004217, AL049869, AF043945, AC004750, AL031286, AC007637, AC004033, AC006501, AC005881, AL035587, AC005412, AC005288, AL034429, AC005348, AC006511, AC005568, AC005837, AL031282, AC018633, AC003101, AC003029, AC005666, AL008723, AC006115, U91326, AC006006, AC005015, AC157744, AC005666, Z85987, U91323, AC006275, Z82178, AL031588, AC006014, AC004517, AC005488, AC004813, AC007690, AC004771, AL021154, AC005049, AC005667, AP000476, AL109827, AL049776, AC007041, AL133245, AC007157, AC005399, AC002527, AL121603, AP000022, AC005180, AL031133, AC004134, AC007766, AC002477, AC004938, Z73417, AC005874, AF134471, AC006165, AC002369, AL031584, AF196779, AL121655, AC005089, Z95331, AC006530, AC005280, AC004673, AC005527, AC006026, AC004998, U63721, Z95659, Z93096, AC002990, AC004953, Z86090, AL109967, AC006538, AL133243, AC005722, AC002395, AC000025, AC005914, AC005216, AC007546, AL049539, AC004821, AL021453, AC004167, AC003043, AC007057, AL133445, AC005216, AC005003, AF095725, AL118497, AC004253, AC006312, AC005887, AL133289, AC004129, AC003007, AL021578, AL022316, AC002554, AL022302, U91322, AC004242, AC009248, AC004667, AL050348,

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HHEWE44	2416	973219	1 - 722	15 - 736	AL119444, AL119483, W01359, AL119418, AL119418, AL134524, AC003037, AC007899, AL031681, AL021977, AL021707, AC005875, AC004967, AL034379, AC007216, U95742, AF109907, AL021453, AL034420, AC004000, AL034417, AL031432, AL022165, AC006287, AC005102, AC005746, AP000300, AC002059, and AC006468.
HHEWF40	2417	973234	1 - 799	15 - 813	AL119484, AL079683, AI612032, AA654627, AL043009, AA381163, F23259, AW265197, F19258, AW277102, M62268, AA768409, AI205126, AA558697, AI003743, T51118, AA366820, AW074398, W60516, AA650244, AA515435, AA077817, AI204076, AA219009, AA626747, AI418164, AI635974, AI110770, F29989, AI561335, AA355602, AI284640, F36404, AA366035, F37223, AI961906, AI365988, AW023672, AW303876, AI610159, AI471481, AI061334, F24284, AI053672, H40538, H64560, AA680299, AA749364, F36273, AI792108, AA578141, AI287528, AI334443, AI358229, AI358343, AI350859, AI350211, AI435544, AI433187, AA317170, F37169, AI287284, F34511, T29360, AI963786, AW088058, AI345459, AI264743, AW339687, F28576, AA559290, AI336660, T16592, AA342901, AI053786, AA831388, AI569086, AI924251, AI446464, AA659083, AI635272, AA714595, W56200, AW406755, AA654968, AW193432, AA133986, AI249997, H73081, N71724, AI305547, AI144330, AW339568, AL138265, AW193265, AL041368, AA664535, AI887483, AW248523, AA341228, F32894, F35659, AI431303, AA542991, AI688846, AA340003, AW338869, AW008317, AI079910, AI423103, AW264973, AW407340, AA308806, AA491814, AA095511, AW406447, AI349874, AI359285, AA977743, AW022046, AA434484, AI046409, AI281903, AW419262, AW439558, AA916039, AI912322, AI914706, AL119691, T40338, AI125139, AI536555, F31799, AI963720, AA919037, AW406162, AA652057, AI246409, AI872421, AA484148, AA649642, AI341664, AL079645, AW269639, N71930, AA362700, AL120295, AI499094, AI557323, AA299115, H71429, AW248803, F35113, AI565245, AW069807, AB343137, AI951928, AA451612, AI148446, AW275674, AL138455, AA775230, AA483034, H16048, AI038279, AI017024, AI613280, AA663306, AI493546, AI064864, AW276827, H64777, AI251002, AL042856, AA252763, AI951889, AI929531, AI610491, Z98473, AW249224, AA714453, AI299050, AI344844, AI471543, AA557686, AA344161, W07122, AI830390, AI037914, AA557879, AL038785, F32705, R72458, AA134367, AI761471, AA299601, AI648558, AW080134,

AW069427, AI287651, AA340960, Z78022, AC007395, AC005069, AL022396, AL049759, AC004453, AL139054, AC006017, AC005244, AC005909, AF042484, AL031665, AP000517, Z97180, AL008626, AF207550, AF011889, AB023054, AC002072, AL034551, AL049550, AC006238, AC004186, AC005520, AC005221, AC002559, AL136501, AC007870, AL035588, AC002382, AJ251973, AC008975, AL008709, AL121754, AL022345, AL133371, AC006512, AF055066, AC004673, AF002223, AL080276, AP000519, AC006151, AP000088, AB023056, AL049765, AC004862, AC004829, AC002289, AF205588, AP000140, AL022170, AL121871, AC008394, AL050308, AC004025, AL034423, AL049836, AC006112, AC006381, AC006196, AL022726, AP000466, AC004381, AL021391, U95741, AP000263, AL009181, AC004955, AP000036, AL049594, AC006213, AP000100, AP000228, AC006560, AL031675, AC004984, AL117337, Z72006, AC008012, AB017652, AC002524, AC005538, AC003969, AB026898, AF130249, AC007024, AC005726, AC005233, AL035258, D87675, AC005949, Z82189, AL049696, AL035070, AB017653, AC004129, AC005008, AP000142, AC006362, Z84484, AL121838, AL049869, AL022067, AL021307, AL021918, AC007386, AL031178, AC006975, AC007051, AB014080, AP000514, AL031054, AC004206, AC005920, AL022153, AC007968, AC007567, AC005252, AC018767, AL121757, AC005023, AC005969, AC005186, AC004901, AL022152, AC006427, AC003051, AL121652, AC005048, AL021329, Z92547, AC008163, AC006572, AL050331, AC006111, AF121898, AC007540, AL031387, AC006080, AL022333, AC007286, AC005203, AC002412, U91325, AC004861, AL024498, AL049690, AL49831, U95740, AL021407, AC005828, AL133396, AL031666, AL008721, AC003964, AC007539, AC005243, AC006376, AC007237, AF042091, AC004964, AL009172, AL121578, AC004042, AC007207, AC004911, AC004596, AC005823, Z93928, AC004878, AC007461, AC007444, AL049742, AC003041, AC004468, AC007026, AL049610, AC006389, AC004503, AC004940, AF003627, AB020875, AL031769, AC007076, AC004817, AL049775, AC007263, AL022343, AP000011, AL109627, AC006538, Z95400, AC006043, Z98304, Z82203, AC004024, AC004849, AC008071, AC004052, AL049613, AE000660, AC002331, AC004832, AL034424, AC002316, Z98949, AC007684, AC004098, AL034548, AC012384, AF111167, AC004918, AC006529, AL049777, AC006077, AP000053, AP000168, AP000121, M87918, and AL031291.

| HHEWL08 | 2418 | 957946 | 1 - 565 | 15 - 579 | AW103406, AI445934, AI653515, AI199816, AA904211, H73550, N55515, AA126005, AI247101, AI049676, AI049630, AA856961, AI278847, AI082353, Z97181, AC007371, AC007934, AC006238, AC004531, AL034402, AC005190, AL022316, AC005484, Z94721, AC004491, AF003626, AC009509, AL031277, AC004941, AC006130, AL022336, AC008041, AC005667, AL121892, AL078644, AL049872, AC005921, AC005820, AF030453, AC005015, AC005088, AC005826, AC007277, AC007308, U62317, AC005924, AL022165, AC005668, AC004664, AC004687, AL049869, AL021977, Z97054, AL022163, AL031733, AC012085, AL035458, AC004593, AC007684, AC007012, AC002112, AC004019, AL049709, AL135783, |

HHEWT52	2419	858116	1 - 296	15 - 310	
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HHEWU52	2420	935243	1 - 370	15 - 384	AL132987, AC005531, AC005342, AF053356, AC002316, AC004895, AL034553, L78833, AF196779, AC004938, AL008721, AL031432, AL049775, AL035458, AE000658, AC003025, Z93017, AC004131, AF064861, AL034549, AL035086, AC005971, AC004230, AL031737, AC005694, AC005841, AC005899, AL034548, AL020995, AL133163, AC004834, AL009051, AC002418, AL033527, AL049610, AC016027, Z97053, AC007314, AF117829, AC007193, AC016830, AC004643, Z93244, AL034417, U85195, AP000031, AF031078, AJ251973, AC005772, Z84469, AC005519, AC004383, AL035684, AC004019, AL034429, AC004593, AP000155, and AC005725.
HHEWU93	2421	973141	1 - 499	15 - 513	
HHEWY63	2422	858114	1 - 402	15 - 416	
HHEXD07	2423	951983	1 - 386	15 - 400	T90576.
HHEXKS1	2424	932911	1 - 441	15 - 455	AA380899.
HHEXX06	2425	933858	1 - 267	15 - 281	
HHEXY05	2426	920532	1 - 694	15 - 708	
HHEYG35	2427	878225	1 - 509	15 - 523	AC003007, and AC005632.
HHEYK30	2428	961960	1 - 481	15 - 495	AW250651, AA205472, AA100098, AW250529, AA852703, AI215935, AA099468, AA502996, R55448, and AL050348.
HHEYK73	2429	847483	1 - 543	15 - 557	AP000553, and AC009516.
HHEYP70	2430	861923	1 - 461	15 - 475	AL040191, AI681518, AI692511, AA126434, W73242, AI741041, AA149414, AI796147, AI382171, AA716512, AA453874, AW406167, AI651251, AI189326, AW300691, AI087946, AI750752, AA678239, AI880169, AI670131, AA527704, AA489320, N41477, AA406606, AI298196, AI189518, N24031, AW193326, AI768820, AA431845, AW072591, AA768764, H40910, AA994953, AI651230, AI767999, AI831533, AW405466, AA577527, AA621254, AA595649, AA777665, AI039523, AA831340, AA676861, AA761298, AI278796, AI633506, C75076, AW440729, AI274990, T74612, AI274989, AI204199, AA027230, AA046211, AI499039, AI698691, AA513167, AI769276, AI247923, AA730209, AA431442, H51604, R73370, H40951, AA714946, AA889500, AW207415, AI868412, AW023485, AW080541, AW089033, AII43409, AA113933, AA149300, AI214812, W73297, R85535, AA347274, AI264766, H44524, AA773391, AB002368, and AC003010.
HHEYQ78	2431	963321	1 - 297	15 - 311	AB002390.
HHEYV03	2432	922104	1 - 459	15 - 473	N43748.
HHEYZ12	2433	968939	1 - 228	15 - 242	
HHEZA83	2434	973236	1 - 792	15 - 806	AW392670, AL119457, AL043033, AL119355, AL119483, U46349, AL134538, AL119319, Z99396, U46351, AL119363, AL119324, AW372827, U46346, AW363220, U46350, U46347, AW384394, AL119443, AL119439, AL119484, AL119391, AL119444, AL119497,

HHEZJ38	2435	860048	1 - 510	15 - 524	AL043029, AL119401, AL119341, AL042984, AL042965, AL134533, AL119418, U46341, AL134536, AL119335, AL134902, AL042542, AL119399, AL119464, AL037205, AL134518, AL134525, AL042544, AL119496, AL134532, AL042975, AI142132, U46345, AL042450, AL043011, AL043019, AL042614, AL043003, AL042551, AB026436, AR054110, AR066494, AR060234, and A81671.
HHEZP45	2436	952047	1 - 187	15 - 201	W26290.
HHEZP54	2437	952367	1 - 798	15 - 812	Z73359.
HHFHP14	2438	960049	1 - 805	15 - 819	AI806206.
HILAA18	2439	657314	1 - 579	15 - 593	AA381084, AA381071, and AA380862.
HILBD61	2440	504130	1 - 516	15 - 530	AA352037.
HILCD94	2441	887182	1 - 809	15 - 823	AA352188.
HJAAH06	2442	960647	1 - 631	15 - 645	AI823665, AI680854, AA723790, AW195801, AW137032, AW439945, AI924857, AA687329, AA743184, AA764896, W93389, and AA353212.
HJAAM73	2443	530476	1 - 451	15 - 465	AW163254, AA314521, AA354171, AA361131, AA337563, AA354364, AA330348, and AF113538.
HJAAT23	2444	530472	1 - 436	15 - 450	AA354447, AI909885, AI940079, AI909850, and AI909873.
HJAAU52	2445	530473	1 - 541	15 - 555	AA354714, W86159, and AI440432.
HJAAU57	2446	661275	1 - 293	15 - 307	AA169182, AA354783, AA354785, H67171, AA309969, R91175, AA502207, AI743721, R76258, AC004762, AC006511, AC005747, AC004821, AC000386, AC003101, AL031259, AC004382, AC007040, AL109798, Z85987, AC004843, Z99128, U73167, U90094, AP000300, AL031848, AC007055, AC005546, AP000045, AP000113, AL035587, AF205588, AP000962, AC002306, Z84469, AC004791, and AL049591.
HJAAV29	2447	669278	1 - 300	15 - 314	AA354798.
HJAAV82	2448	738993	1 - 669	15 - 683	H38110, AA354829, and AA242784.
HJAAW39	2449	530468	1 - 417	15 - 431	AA354854.
HJAAW48	2450	530641	1 - 391	15 - 405	AA354890, F00906, AA629836, AI446336, AC005288, AC002418, AL035405, AC003684, AL049631, AC006088, AC005800, AC004814, AL133445, AC000353, AC004386, AP000493, AC004966, AC004883, AL021154, AC004813, AL034417, AC003098, AL022476, AC006449, AC006511, AC006312, AL034429, AC005229, AC004491, AC007774, AL050307, AC006501, AF111168, Z98742, Z98036, AF190465, AC006538, AC004699, AC006026, AL096701, AC004967, AF053356, AC008115, Z99716, AL050318, AC005696, AC004821, AC004812, Z98051, and Z68756.
HJABB37	2451	530467	1 - 421	15 - 435	AA355113, AW068073, AA425026, and AA157625.
HJABC27	2452	669059	1 - 367	15 - 381	AA355129, AA287703, R05710, T83234, AB023172, and AF143869.
HJABH14	2453	530463	1 - 310	15 - 324	AA310688, and AA355321.

HJABJ06	2454	954589	1 - 475	15 - 489	AA309609, and AL023806.
HJABP04	2455	925557	1 - 493	15 - 507	AA309924.
HJABV44	2456	871824	1 - 556	15 - 570	AA310251, AA831350, AA302870, AA811673, AI076729, H67854, AA601376, C14014, AI869406, AI133355, Z93241, AC007308, AC006162, AP000500, AC007160, AC006115, L78833, AL049793, AC005081, AC006011, AL034548, Z97056, AC005224, AC006121, AL050318, AC004150, AL022311, AC005015, AC005632, AP000503, AC006021, AP000356, AL050312, AC005562, AC004099, AF165926, AC006211, AC002044, AL031311, AC005971, AC008012, AL031255, AC002470, AC007283, AC004106, AC004757, AC001228, AP000692, AP000133, AP000211, AP000030, AC005726, AL049829, AF196971, AC005529, AP000252, AC005305, AC002115, AC006487, AL020997, AF001548, U95090, Z93016, AL049694, Z97054, AC004686, AC005800, AC005902, AL031390, AL031297, AC006111, AP000251, AC004087, AF053356, AL049757, Z94801, AC007227, Z83844, AL096701, AL021391, AF205588, AC010077, AB023049, Z93023, AC004655, AC004882, AC005874, AF134471, AL031767, AL109914, AL109839, AC007350, AL031668, AF055066, AF134726, AC002306, Z94056, AC001052, AC004659, AC004966, Z83838, AC004685, Z97989, AC005822, AC005755, U62293, Z98200, AC005722, AC004156, Z99570, AB020871, AC007664, AC007537, AC004148, Z98048, AC008018, AC007021, AL109984, AL022238, AC005049, Z83732, AC004983, AC006449, AC005538, AC071193, AP000311, AC002347, AC007057, AL133448, AL031281, Z92542, AC005057, AP000049, AL022323, AC005962, AC004910, AC006014, AL022316, AC004816, AC005011, AP000870, AC004699, AC005180, AC009247, AB020870, AL096791, AF196779, AL139054, U62317, AF037338, AC004797, AL031778, AB023048, AC003110, AL031597, AL035695, AL008734, and AP000088.
HJABV57	2457	839528	1 - 661	15 - 675	AA310405, A30438, I25947, U46128, L40401, AR040601, and AJ133038.
HJABW28	2458	958721	1 - 368	15 - 382	AA310349, H63791, H63751, AA488739, AC004236, AC004466, and AA249375.
HJABX33	2459	966611	1 - 425	15 - 439	H64513, and AA310354.
HJABY68	2460	861548	1 - 483	15 - 497	AA310646, AA354853, AW405591, AW402676, N76224, N42680, and AI290663.
HJABZ52	2461	857454	1 - 438	15 - 452	AA310693, H83593, AA236501, AF150367, AL035563, Z61190, Z60182, and AF161557.
HJACB80	2462	746411	1 - 545	15 - 559	AI094227, W92159, AA825437, R02713, AW205546, T86217, AA885954, W86575, AA904189, W86709, F17491, AA310834, and AC008014.
HJACC59	2463	534867	1 - 505	15 - 519	AA310956, AA355111, W79349, D81026, C15076, C14389, AW377671, D80522, D59467, D80164, D59502, D81030, D80166, D80193, D80195, D80391, D59787, D59627, D80133, D59275, D80038, D80022, D80212, D59619, D80210, D80240, D50979, D80196, D51213, D80227, AA305409, D80219, D58283, D51022, D59859, C14331, AW384820, D50995, AW384832, D51423, D51799, D80253, D80251, D80043, D80045, AA305578, D51060, D80269, AA309971, D80248, C06015, D80258, D80188, D59927, D59610, D57483, D80378, D80366, T03269, D80268, AW178986, D59889, D80024, AA514188, D80439, AW177440, T11417,

HJACC67	2464	518222	1 - 343	15 - 357	
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Clone	SEQ ID				Accession Numbers
HJACE47	2465	589114	1 - 298	15 - 312	AB028859, AC007790, AC007227, AC005912, U95739, AB004907, U91319, AC006077, AC000004, AL121852, AC004253, and AC006026.
					AA311100, and AA355655.
HJACE79	2466	666768	1 - 461	15 - 475	AA311091, AA354762, D58283, D80043, D80268, C14389, D80188, D57483, D80022, D80166, D80253, D80195, D80391, D51423, D59619, D81030, D59859, D80210, D51799, D80240, D80196, D80212, D80227, D50979, D59502, D59927, D80219, D59275, D50995, D59889, D80038, D80193, D80269, D59787, D59610, D80366, D51060, D80024, D80164, D80241, D80522, D59467, D80378, C15076, D80045, D81026, AW177440, AW177501, AW177511, C14014, AW377671, AA305578, C14331, AW352117, AA514188, AA514186, AA305409, D51022, D80248, T03269, AW178893, AW352120, D80247, AW360811, D80251, D80133, AW179328, T03116, D58253, AW375405, AW360844, AW378532, AW178906, AW179024, AW177505, AW178775, D80132, AW366296, D51213, AW360817, D51250, D80302, AW375406, T11417, AW352158, AW378534, AW352171, AW178762, AW179332, AW377672, AW377676, AW179023, AW178905, D80439, D80134, F13647, AW178754, AW177731, AW352170, AW360841, AW179020, AW178909, AW177456, D52291, AW178907, AW179019, AW179018, AW178971, AW179004, D51079, D59627, D80168, AW178781, AW179017, D80014, AW178980, AW179329, C14227, AW179012, AW352174, D81111, AW177733, AW378528, AW178908, D51103, AW367967, C06015, D80157, AW178774, AW378540, Z21582, AW178983, D51759, C14407, AW179009, AW178914, AW378543, AW378525, C14298, D80064, AW905856, AW352163, AW178911, AW177911, AW177728, T48593, D58246, D59503, AA285331, AA809122, T02974, AW360834, AW178986, D58101, D45260, D80258, AW177734, C03092, H67866, AW367950, AI525923, AI557751, AW369651, H67854, D60010, AW378533, AW378539, D51097, D59474, C14344, D45273, D51231, AI525917, D59317, AW179013, AW178759, C14973, T03048, AI525227, D51221, C14046, AI525920, AA514184, AI557774, AI535961, AI535686, C16955, H67858, D59551, Z33452, Z30160, AI525912, AI525235, AI525242, AW378542, AI525925, AI525927, AI525215, C05763, AL031005, A62300, AJ132110, A84916, A62298, AR018138, AB028859, AF058696, AR008278, X67155, Y17188, D26022, A25909, A67220, D89785, A78862, D34614, Y12724, A82595, D88547, A94995, AB002449, AR060385, X82626, AR016808, AR008443, AR025207, I50126, I50132, I50128, I50133, AR060138, AR066488, AR016514, A45456, A26615, AR052274, AR066490, Y09669, A43192, A43190, AR038669, AR066487, I18367, AR054175, A30438, X68127, I14842, AB012117, D50010, Y17187, A63261, A70867, AR008277, AR008281, AR008408, A85396, D88507, AR066482, A44171, AR062872, A85477, AR016691, AR016690, U46128, I19525, A86792, X93549, D13509, A64136, A68321, AR060133, I79511, AF123263, and AR008382.
HJACF14	2467	659329	1 - 635	15 - 649	AA311125.
HJACF47	2468	507156	1 - 910	15 - 924	W94499, AA311178, AA568770, AB376314, and AL117328.
HJACH86	2469	784634	1 - 258	15 - 272	AA311347, and AC002310.

HJADD60	2470	708664	1 - 321	15 - 335	AA713522, AA687156, AA459001, AA250811, and Z98946.
HJBAB01	2471	961088	1 - 292	15 - 306	AA355427.
HJBAD34	2472	508225	1 - 121	15 - 135	AA355455, AA355516, and AC005156.
HJBAG75	2473	523069	1 - 266	15 - 280	AA355499.
HJBAT26	2474	522697	1 - 269	15 - 283	AA356012, AI969579, AA913841, AI224479, AA505890, AI360528, and AA765212.
HJBAX43	2475	929793	1 - 290	15 - 304	AA356074, and AC000065.
HJBBD13	2476	765075	1 - 198	15 - 212	AA356340.
HJBCP53	2477	574259	1 - 414	15 - 428	AA306860, AA312440, AI478642, D59627, D80168, D59695, D52291, T03048, D45273, D51213, C16955, C15076, D59275, C14298, AA305578, D80251, D80949, D51799, D51079, D80269, D57483, D59467, D80227, D80366, D59889, D80253, D81030, D80164, D50979, D59610, D80024, D80212, D80195, D80196, D80188, D80219, D59502, C14389, C14331, C14407, D80045, D50995, AW360780, D58283, D51022, D59859, D80022, AA305409, D80166, D51423, D59619, D80210, D80391, D80240, D80043, D59787, D80064, D80038, D80378, D81026, D80241, D80193, D59927, D80228, C14227, AA514188, D81111, Z33452, D80258, D59503, D80014, D58246, D58101, D80133, AI535686, D51060, AI557774, D80248, T11417, AW377669, D52059, T02974, F13647, C14014, D80522, Z21582, Z30160, C06015, C14077, AA514186, AW377661, H67854, H67866, D59551, D80268, AI525216, AI525228, N66429, AI557751, D60214, D80302, AA809122, AI525969, D59317, C14344, D80439, C03092, D80157, C13958, C14973, D59474, T03116, D80247, C04682, T02868, AI525978, D51103, AA514184, AI525238, D51759, D51221, AI525242, AI525903, AI525923, C14002, AI525920, H67858, D31458, AI525227, D45260, C05763, AI525237, AI525235, AI525912, AI525215, AI535961, AA305720, AI525917, AC003682, AJ132110, A84916, AR016808, AB028859, X64588, A62300, A62298, AR018138, AR008278, AB010386, AF058696, I79511, AR060385, AB019242, U37689, I81198, AB002449, I14842, A82595, A47134, AR054175, AR008277, AR008281, AR060382, and Z82022.
HJBDB28	2478	839067	1 - 199	15 - 213	AA306009.
HJBDG57	2479	750669	1 - 454	15 - 468	AA306410, AW245824, AA313296, AA306336, AW245551, AA304936, AI525315, AA355857, AA382974, AA313343, AA158977, AA360010, AA158998, AA312340, AA341482, AW403283, AA355541, AJ010058, Y18418, AF099084, AF070735, AB012122, AF100694, AB001581, and AB002406.
HJBDL14	2480	960109	1 - 565	15 - 579	AA306649, N76633, Z40822, and Z97989.
HJKSB86	2481	523007	1 - 336	15 - 350	
HJPAH35	2482	509162	1 - 312	15 - 326	AA356898.
HJPAT51	2483	730875	1 - 335	15 - 349	Z25932, and Z25922.
HKBAC12	2484	857298	1 - 743	15 - 757	AI940546, AI859744, AI859866, AI671077, AW236342, AA372106, AA024517, AW440976, F23274, F34826, AW406162, F34511, AA614010, AI291124, AL079869, AA634855,

AI291268, N54179, AA025083, AI537030, AA663482, AA501600, F33121, AA626678,
AA834799, AW188484, AA127486, AA318652, AI205126, AA327572, AI282310, AI886365,
AL041706, AA666059, AA054106, AA077817, AA372881, W32993, AA515224, AA715606,
AA987962, AA593060, AI301273, H64777, AI287485, T40077, AA347927, W47444, AA654322,
AA381747, AA570416, AI341548, AI039451, N43757, AII33164, H43183, H39611, AA528441,
AA180964, AA215929, H04867, AII90960, AI718446, AI815583, AA565700, AI678392,
AA586655, AI110770, AA347930, AA450199, AL041368, AA641103, AI816537, AI339440,
AI282832, AA351845, AA504951, AI921649, AI635274, AA723017, AL138065, AW028353,
AI376100, D29019, AA745410, AI049649, AI865905, AI921296, AW029038, AA177061,
AA507991, AA243959, AW368401, AA359958, AI824562, F36273, AI821722, AW074059,
AA533408, AI962050, AI56904, AI732162, AL564284, AI499094, AI802526, AI873916,
AI821172, AI982634, AI370475, AI049722, U34879, AF207550, AC005071, AC006241,
AL035071, AC004659, U91326, AP000255, AC007057, Z99943, AL049872, Z85987, AC005358,
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AP000135, AC007191, AL031428, AC004106, AD000092, AL021937, AP000031, AL049757,
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AC005041, AC005144, AL049776, AC005932, AL022238, AL022163, Z92542, AC007263,
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AC002115, AC009946, AL035423, Z97989, AL109627, Z82211, Z98883, AF181896, D16561,

HKBAQ43	2485	1-44	15-58	AL031589, AC003035, AL049833, AC007156, AC007371, AC004087, AC004130, AL109628, AL021392, AL031293, AC010170, AC000052, Z95704, AL020997, Z97054, AC005730, AP000272, Z86090, AL031667, AC009784, Z93096, AL008582, AC007193, AC008044, U95740, AC005206, AC004257, Z97352, AC004918, AC005755, AL034418, AL022311, AC005486, Z69917, AL031289, AC004263, AC006211, AC004019, AL031276, and AL035045.
HKBAT27	2486	1-766	15-780	T07417.
HLADA25	2487	1-428	15-442	AA159634.
HLADA89	2488	1-471	15-485	AA259081, and AA256010.
HLCDB78	2489	1-374	15-388	
HLEAO21	2490	1-95	15-109	
HLEDB91	2491	1-109	15-123	AA701968, AI038071, AI913968, AA478730, AA479434, and AC000123.
HLKDB22	2492	1-837	15-851	AA127898, and AA127851.
HLKDC49	2493	1-783	15-797	
HLLCD11	2494	1-322	15-336	
HLMAC43	2495	1-368	15-382	
HLMAE45	2496	1-309	15-323	N71728.
HLMAB62	2497	1-163	15-177	
HLMAE83	2498	1-297	15-311	H04096, H04118, AI085270, AI348611, H03415, H03398, H87153, AI184354, and AW382616.
HLMAH45	2499	1-532	15-546	
HLMAH60	2500	1-108	15-122	
HLMAJ54	2501	1-362	15-376	AI972605, AI825634, AA291745, AA281084, AA836598, AI301258, AW207800, AI468330, AI559377, AI423842, AW138405, AA398529, AA428226, AW137882, AW149488, AI277002, AW135764, AI630822, AI802000, AW027943, AA746502, AI479965, AW207230, AI436232, AI299005, AI992316, AI277010, AI805270, AI819704, AA477763, AI333133, AI091828, AI018332, AI369454, N95248, AW134617, AI017173, AA535795, AW274817, AW137677, AW203971, AA293668, AW140143, AI970870, AW184019, AA526926, AA831623, AI589653, AA745853, AI670914, AI468159, AI221290, AA304437, AW139897, H97046, AA724268, AI247557, AA737067, AA293000, AA706959, N78408, AF007887, and AC007041.
HLMAJ84	2502	1-296	15-310	
HLMAN25	2503	1-153	15-167	
HLMAU11	2504	1-286	15-300	
HLMAU43	2505	1-136	15-150	
HLMAU70	2506	1-388	15-402	
HLMAV62	2507	1-126	15-140	AC002073.
HLMAZ06	2508	1-428	15-442	AA262581, H77920, AI479768, AA810033, AI440530, AA584862, C15362, AI110760,

					AW385729, AC002300, AC003684, AI021878, AC005546, AI132712, Z95331, AC006581, AC009464, AC007387, and AC006398.
HLMAZ14	2509	932679	1 - 249	15 - 263	AI762175.
HLMAZ72	2510	821500	1 - 592	15 - 606	AI821467, AI694977, AA230143, AC006480, Z83838, Z81370, AL022324, AC007227, AC005057, Z98950, AC006054, AF045555, AC005668, AC006285, AC007917, AP000704, AC005081, AC005821, AL049869, AC002395, AL031662, AC002449, AP000689, AC004185, AC002563, L29074, AC006039, AC000052, AC016025, L78810, U52112, AF088219, AC004019, AF152365, AP000509, Z85996, AC004150, AL050338, AC009044, AC004000, AC002059, AC003077, AF064866, AL020993, and AC004638.
HLMAZ91	2511	920216	1 - 239	15 - 253	Z97352.
HLMBB25	2512	792549	1 - 242	15 - 256	AA012851, H86413, AA019024, and H86637.
HLMBB43	2513	530611	1 - 343	15 - 357	AC020663.
HLMBB56	2514	968209	1 - 366	15 - 380	
HLMBB77	2515	799744	1 - 331	15 - 345	AA219006, F08248, AI053911, AI933714, AW149313, AA846876, AI056177, AA297666, AI537772, AI494539, AI870197, AI636730, AA410788, C15060, AL037632, AA838190, F12561, N35602, AA127426, AW020088, T07039, AA308716, AA584378, AA621381, AI524360, AA961035, AA588001, AW148507, AA541423, AA213959, AA515457, AW275510, AA575911, AA580808, AA828042, AA747778, AL045808, AL046156, AI791913, AA501649, AW341978, AI792133, AI821714, AW149156, H07953, AW419262, AA630672, AI133297, AW179306, AW270343, H71429, AA954924, AA829036, AI344995, AI311276, AA493975, AA478355, AI925579, AA508359, T92321, AW235497, AI499588, AA878409, AL138182, AI287475, AA487621, T74524, AI311927, AL079645, AA493708, AA714276, AA613232, AI223700, AA228778, AA488746, AW023865, AA827231, AW274349, AI687343, F13808, AW378532, AA457070, AA086368, AA663461, AA326139, AA484267, AA372481, AA659360, AA503119, AA436774, AW303196, AA828749, AI648410, AL042927, AA502991, AA745507, AI250281, AW179305, AI282511, AI341571, H73550, AA436782, AA456578, AA522642, AA903253, AI873990, AA469400, AI284640, AI754567, AL035847, AI755214, AA827215, AA355379, AA847702, AI137013, AA658362, AA309257, AI745151, AI431240, H12071, AA380354, AI619436, AA515905, AL046409, AA683082, AL041373, AW408729, AA378690, AA508809, AA745406, AI821785, AA446657, H18914, AA833896, AA533463, AA833875, AA767963, AA508104, AA371482, AA557883, AL036037, AA469451, AA207033, AW196064, AA564865, AL041526, AI678368, AS26856, AA501852, AI791150, AW301350, AI818231, AA463590, AW020340, AI720058, AI040342, AA715814, N23504, AW172999, AI733856, AA732253, AA749235, AA610219, AI678785, AL048925, AW022655, AA568754, AI292257, AI377161, AI345891, AA788901, AA644090, AA531079, R89542, AA620467, AA630860, AA581123, AS02860, AW250905, AI149478, F25733, AI732677, AI281881, AA846907, AW130962, AB029885, U62317, AP000211, AP000133, AC006213, AC005778, AC006144, AC007298,

HLMBB80	2516	950730	1 - 355	15 - 369	AC004935, AF053356, AC002357, AL109798, AC002119, AL109798, AC005231, X55448, AL109984, AF031078, AC003072, AL031289, AF030876, AL050306, AC005332, AC005701, AC004838, AC005081, AC005808, AC004167, AC004486, AL049647, Z99716, AL031005, AF196970, AC005348, AL031597, AC005971, AC008064, AP000694, AC007934, AC004813, AC007151, AL031589, AC010170, AC020663, AC002299, AC002470, AC005065, AC005736, AL031652, AL050341, AF129756, AC016025, AC005913, AC002565, Z83822, AC007666, AF165926, AP000251, AC007558, Z85987, AL049758, AC005924, AC004671, AC005399, Z84466, AC000052, AC004525, AP000501, AL050318, AL035413, AE000660, Z82249, AL050332, AF096876, AP000030, AC004999, AC006226, AC004019, AC005071, AL049570, AF115549, AC005181, AB020873, AC000073, AC000085, AC005527, AP000556, AP000085, U07000, AC006531, AC007057, AC006581, AC003006, AC004825, AC008989, AC007458, AC016027, AC004787, AC005003, AL033392, AL034553, AC005702, AC004945, AF152364, AL121653, AC005037, AC005514, X74107, AF165147, AC004616, AC002464, U67829, AC006195, AC003988, AC004706, AL049760, AL049557, L44140, U80017, AC002504, Z98750, AC007537, AC005695, AC000353, AF246003, AC007162, AL049565, AP000344, AL139054, AC005529, AC016830, AC006211, AC007055, AP000065, AB017602, AC005280, AC004160, AC004057, AL008718, AC008012, AL031767, AF093117, AC000039, U91325, AC007073, AC005066, AC008101, AC012599, AL133399, AP000049, AC011718, AC007285, AC008132, AC007664, AC004963, AC005342, AC005031, AL031294, AC003101, AC006050, A58551, AC005089, AC008079, U00921, AC009247, Y14768, AP000505, AC002492, Z98050, AC005899, AC003098, AL121658, AL080232, Y07848, AC007564, Z54146, AC006367, AC004069, AP000311, AL133246, AL035410, AC006045, AC000035, AC007279, AC000070, AC000086, AC008967, AC004465, AL031780, Z98742, AC006011, AL031708, X75335, AC005075, AC004382, AL035252, AC002455, AC005222, AD000813, AL117328, AC000065, AC005180, AL033377, AL034554, AL121877, AC005988, AC007253, AC005102, Z99943, Z83818, AC012099, AC000119, AC004953, AC005015, AC007308, AL031659, AL022326, AL024509, AL023803, AC005548, AC016831, AL035697, AC007536, AC002350, AC009479, AC005839, AP000500, AC006111, Z81369, AC005324, AL021977, AC004947, AL035072, AL049764, AC012398, U93163, AL022330, AC006205, AC005185, Z99496, U52112, AC004025, AC004032, AL049828, AC005907, AC009399, and Z96243.
HLMBF68	2517	753614	1 - 551	15 - 565	AA548350, and AL035209.
HLMBQ04	2518	615621	1 - 430	15 - 444	
HLMBQ77	2519	954969	1 - 726	15 - 740	AA287609, AW305191, and AA309915.
HLMBU64	2520	577608	1 - 228	15 - 242	AL035413.
HLMBU82	2521	799755	1 - 331	15 - 345	
HLMBV11	2522	967669	1 - 442	15 - 456	AA383383, and AC009509.

| HLMBV14 | 2523 | 682023 | 1 - 396 | 15 - 410 | AI471481, AA317973, AW088202, AA350859, AA650244, AI679379, AI284640, AI688846, AI446464, AA469451, AI251002, AA228420, AL041368, AI679888, AW264973, AI286264, T07451, AL046409, H63607, AI339850, AW440836, AW274349, AW131034, AW193432, AI918421, AI962050, AI273185, AA826303, AI619997, AW029038, AI929531, AW236342, AW419262, AA515128, AI890923, AW166815, AA886584, AA659083, AL040130, AA515051, F36273, AI610159, AW162049, AI824562, AL042420, F29989, AA977743, AW303196, AI431303, AA713815, AW301350, AA483068, AA364456, AL043721, AW193265, AI904894, AI537955, AI133636, AI567674, AI873916, AA594145, AA598824, AI625244, AF150222, AI679782, AA190613, AW088058, AA365347, AI133164, AI341664, AL120674, AA664535, AI278997, AI281697, AI350211, AL038785, AA229785, F18974, AI205126, AI608626, AA077817, AI653886, AI334443, AI053672, AI064864, H64777, AI613280, AA133986, AW055226, AA243452, AI469172, H88666, AI312149, AI830390, N25296, AI628288, AI282832, AA044863, AL119391, AI049722, AI951889, AW028400, AI287528, AA318652, AI017024, AW276827, AA177061, AI917271, N29933, AI286356, AA252763, C06458, AL138265, AW406447, AI537030, AI270117, AI951928, AI345654, AA021367, AI281903, AA385100, AA515224, F37169, AI289067, AI291124, AA634146, AW276435, AA771811, AI287485, AI821356, AI375710, AI340453, AA515435, AI291268, AL041412, AL041690, AA745410, AI358571, F32654, AA377730, AI301273, AA468131, AI168185, AI144330, AI110770, H39611, AW261871, AC003971, AL021368, AL031387, AL109985, AC000004, AF117829, AC007999, AL132994, AC002564, AL049830, AC004859, Z75741, AJ006996, AC004594, AC006430, AL031224, AC010170, AL035458, AL023284, AC005999, AL035416, AC006160, AL117356, AC003954, Z96074, AC004459, AL031286, AC005694, AP000705, AL096829, AL121578, AL035422, AL035446, Z84719, AL109759, AL022397, AL121871, AC006511, AL021397, Z98255, U91326, AL049777, AC005529, AC006479, AF029308, AC006238, AL008708, AC007073, AC008268, AC006459, U89335, AC004819, AC004677, AC006044, Z97205, AC005227, AC005832, AL096769, U70984, AC005844, AL109622, AC005191, AL009172, AP000519, AC004592, AL136297, AC006251, AC007051, AP000014, AL049709, AC006020, AB023056, AC003075, AL121823, AL035687, Z77249, AP000152, AP000011, AL109807, AC007546, AL008719, AC006525, AL022160, Z74696, AL035067, AC002544, AP000515, AL031733, AF064857, AC002457, AL023580, AC004864, Z84814, AC000073, AC000085, AF049895, AC005084, AP000473, AL096767, Z98946, AL117351, AL109984, AL023582, AC003015, AC004702, AL021026, Z98200, AL031734, AL033403, AC006256, AP000307, AL050305, AC004769, AC008149, AL110505, AB000882, AC006417, AL109653, Z73986, AC005539, AC007750, AL132800, U69730, Y10196, AC006946, AF109076, AC003029, AF172277, AP000080, AC007214, AC002381, AC006374, AL031391, AL109837, AC002531, AC003045, AL135746, AC007115, AL022310, AC006249, AL049873, AJ239322, AL021877, AC006040, AL022319, AL136363, AL031782, AC005863, AC005909, AC004979, AC004842, |

HLMBV24	2524	825595	1-232	15-246	AC007106, AC012085, Z78022, AF017732, Z95124, AC002554, AL050348, AC004912, AC004049, Z99716, AC002044, AC009721, AL049835, Z78021, AL008629, Z82900, Z98884, AJ010598, AC006002, AC005323, AL035696, AF222685, AC004908, AL031670, AC005728, AC006432, AC006515, AP000115, Z95327, AC004984, AP000455, Z97198, AL096707, AL009051, AC009233, AC004020, AL078644, AC005969, AC004866, AC006383, AL022328, AC002451, AF070718, AC004547, AL023578, AC009891, AF003627, AC004384, AL033525, AL031116, AC006565, U91327, AC005216, Z83843, AC005029, AL031785, AC007065, AC006029, AC004531, AC006367, AL133512, AC009405, AC007671, Z98941, AC005993, AC005703, AC004930, AL031285, AL035079, AL121757, AC021092, AL035604, AF001905, AC000119, Y18000, AG000120, AC004055, AP000081, AC008067, Z93928, AL117258, AC008015, AC007380, AC007687, AC004199, AC005532, AP000704, and AC008109.
HLMBV72	2525	688069	1-295	15-309	
HLMBW11	2526	950728	1-925	15-939	AW009940, AI394293, AI082857, AA227673, AW207417, AA491391, N99896, AA491389, AA227560, AI000839, AA361942, and AF156884.
HLMBX06	2527	954576	1-397	15-411	AW409578.
HLMBX19	2528	879667	1-233	15-247	AC007539.
HLMBY16	2529	531053	1-193	15-207	
HLMBZ31	2530	967640	1-270	15-284	
HLMBZ47	2531	577605	1-348	15-362	AC003070, and AL135783.
HLMBZ73	2532	531401	1-209	15-223	
HLMCA13	2533	790952	1-398	15-412	R61738, AL117647, AB023195, and AL117518.
HLMCA22	2534	529185	1-257	15-271	
HLMCJ32	2535	799767	1-337	15-351	
HLMCJ64	2536	739397	1-314	15-328	AA719251, and AC005839.
HLMCJ66	2537	707231	1-83	15-97	
HLMCK45	2538	698342	1-268	15-282	
HLMCL50	2539	921041	1-179	15-193	
HLMCL93	2540	799699	1-620	15-634	AA192733.
HLMCT06	2541	954615	1-378	15-392	AC005696, AC006536, AC004500, AC004589, AL096773, AC007023, AC007057, and AL132712.
HLMCT15	2542	507212	1-244	15-258	
HLMCT24	2543	921543	1-231	15-245	AL035086.
HLMCT79	2544	916590	1-344	15-358	AW268314, AA767276, AI032114, F18098, AC007993, AC008085, AC006544, AC005697, AC004686, AC005632, AC005730, AP000152, AP000011, AC009542, AC009330, AC005606, Z83840, AC002094, U91319, AC016026, AL023096, and AC002454.

HLMCT93	2545	888976	1 - 336	15 - 350	
HLMDE76	2546	529184	1 - 92	15 - 106	
HLMDF04	2547	694910	1 - 53	15 - 67	
HLMDF14	2548	799739	1 - 369	15 - 383	
HLMDF52	2549	571415	1 - 170	15 - 184	
HLMDH54	2550	527128	1 - 495	15 - 509	Z82206.
HLMDH78	2551	532741	1 - 249	15 - 263	H28779, AI865182, and AL136295.
HLMDJ37	2552	577239	1 - 418	15 - 432	AL096768, AC002312, and AC005800.
HLMDJ48	2553	720893	1 - 342	15 - 356	
HLMDN83	2554	799742	1 - 340	15 - 354	
HLMDO02	2555	920859	1 - 235	15 - 249	
HLMDO18	2556	527896	1 - 136	15 - 150	AL096755.
HLMDO61	2557	584982	1 - 141	15 - 155	
HLMDO65	2558	742749	1 - 456	15 - 470	AA312110, T62666, H06759, W37108, W40387, AI620464, AI911142, R12100, W76480, W45377, Z45518, AA315859, and AF190465.
HLMDP35	2559	535500	1 - 247	15 - 261	AA131317, AW250536, AA456441, AA301053, AA301052, and D83782.
HLMDQ37	2560	531232	1 - 126	15 - 140	Z83844.
HLMDQ40	2561	531234	1 - 188	15 - 202	
HLMDQ60	2562	920837	1 - 368	15 - 382	R89560, AA377325, H73561, AA550959, N70472, AA225100, R34070, AA298647, AA458573, AI683547, AA225028, AA063115, AW151247, N63897, T07878, AI889108, AI696343, AA632447, AA559241, N71619, AA502571, H62923, T03576, AA669711, AL024498, AL021707, AC005971, AC004491, AL022721, AC003080, Z85987, AC004967, AL022313, AC007421, U91323, AC006014, AC005231, AC005089, Z84480, AC007226, AC005488, AL135744, AP000113, AC006088, AF047825, AC005081, AL022165, Z94801, AC007216, AC004955, AC004890, Z83844, AC007225, AL022320, AC004963, AC004893, AC006512, AC004938, AC005920, Z97630, AC006241, AF124523, AC004223, AC008040, U91326, AC004929, Z98044, AL035413, AC020663, AC005071, Z98051, AC007676, AL096701, Z98742, AC005057, AP000359, AC005184, AC002404, AB023049, Z85986, AC004000, AC002395, AF001549, AC005342, Z84487, Z99716, AC005808, AC004859, AC007546, AP000557, AC002544, AL031311, AC005288, AL031289, AC004895, AL023575, AC002470, AC004216, AC006285, AC004999, AL109627, Z86090, AC003029, AP000692, Z92542, AF031078, AC004841, AC005102, AC003043, AC002314, AC006077, AP000556, AL034423, AC006538, AC004883, AL022311, AL008718, AC005305, AC002094, AF030876, AC005412, AC005409, AC006160, AL034420, AF111168, AF001548, AB003151, AC007551, AL035415, AC004167, AP000689, AC005015, AC005632, AC005520, Z93023, AL050307, AC008372, U78027, AL035659, AF165926, AC005914, U07563, AL034429, AL050341, AC007182, Z98200,

HLMDR16	2563	530103	1 - 113	15 - 127	AC005229, AF196779, AC006312, AC005907, AL031295, AC009248, U62293, AC009248, AL049760, AL022316, AC002312, AC022517, AC002350, AL133371, AC004383, AC004099, AC005095, AL031281, U82828, AC006050, L78810, AL035667, AP000512, Z95114, U95743, AF109907, AC006039, AL022476, AC007358, Z83840, AC002347, AC006468, AL132712, AC002316, AL035422, AC007690, AC005899, AC000159, AC007051, Z97181, AL031846, AL109952, AC007450, AC016027, AL109628, AC006111, AC005225, AC002563, AC005696, AC005736, and AB014078.
HLMDR33	2564	959707	1 - 416	15 - 430	
HLMDR70	2565	531235	1 - 94	15 - 108	
HLMDT17	2566	531231	1 - 210	15 - 224	AL050337.
HLMDU04	2567	571393	1 - 281	15 - 295	
HLMDU07	2568	930471	1 - 456	15 - 470	AI654933.
HLMDU17	2569	528040	1 - 219	15 - 233	AL080243.
HLMDU43	2570	575607	1 - 359	15 - 373	AI337315, AI492017, AI565658, AI565657, AI651781, AI591214, AI565667, and AL022316.
HLMDU54	2571	856877	1 - 320	15 - 334	Z74023, and AF172244.
HLMDU71	2572	531228	1 - 316	15 - 330	
HLMDU96	2573	799729	1 - 309	15 - 323	
HLMDV96	2574	934543	1 - 813	15 - 827	AI824014, and T79467.
HLMDW28	2575	531230	1 - 293	15 - 307	
HLMDW58	2576	799749	1 - 282	15 - 296	
HLMDX46	2577	523771	1 - 306	15 - 320	
HLMDX59	2578	739523	1 - 404	15 - 418	AA666254, R96738, R35404, AI571161, AA584484, AA740297, AA657778, AW089952, AA297844, C05714, H60313, AA587995, AI266003, H51835, H58666, N80546, AI682665, AI382324, T61514, AL118980, AI886056, F00818, AW079664, AI814739, AA603530, AA826081, AA515457, AI865807, AW068316, AA608751, AI872513, R07267, AA639946, AI289941, AI289942, AI955697, AA693484, AL049273, AL135744, AC003109, AC006238, AJ246003, AC007537, AC005736, AC005520, AL049757, AL049757, AC005015, AL049872, AJ010598, AL031291, AC006480, U91325, Z81314, AF187320, AL049748, AL034429, AC005210, AC007899, AF121781, AL121658, AL031670, D86995, AC002430, AC016025, AL021154, AL035249, AC007384, Z97056, AP000269, AP000032, AP000103, AC006064, AC005368, AC006088, AC007731, AC005971, AC005500, AC006026, AL050348, AC005859, AL020997, AC005914, AC006449, AC002511, AC002369, AP000347, AC002470, AC005513, AL023694, AL133448, AL020993, AL031803, Z94057, Z85986, AF047825, AC004383, AC005569, U91321, AL121655, AP000558, AC006080, AC001228, AF001549, AF111168, AP000350, U62293, AL031281, AL109827, AC007327, AC007308, Z98941,

HLMDX71	2579	799758	1 - 356	15 - 370	AC005695, AC007546, AF001550, AC006112, AC000134, AC004228, Z84480, AC002477, AP000555, AC005839, AC008585, AB023048, AC002492, AC007686, AC002549, AC004882, Z97053, AL096763, AC007845, AC003682, AC008149, AL031659, AC004531, AC007766, AC006539, AL049745, AL096791, AC004876, AL031311, AC002045, AC005730, AC009516, AL121653, AC005826, AL109627, AL096701, Z97630, AL022726, AL031431, AL049539, AC004896, AC006441, AL035086, AC005829, AC003043, AC002472, AF196779, AL023553, AC004782, AC005412, AC006130, AL022097, Z86090, AC005899, AC006430, Z69715, AC007999, AC007372, AC004821, AF207550, AC005195, AP000348, AC008984, AC005225, AL080242, AC006930, AC004598, AC005377, AL049837, Z46936, AP000355, AC005529, AC004929, U47924, AJ003147, AC005295, AC005531, U85195, AP000134, AL109758, AL050318, AC004643, Z69713, Z83841, AL049843, AE000658, AC004386, AL031685, AC002407, AC004686, AC005969, AC002316, Z93930, AB023051, AL021578, AC005363, AC005519, Z70289, AC007096, AC006077, AC003006, Z98885, U07563, AL035443, AL109963, AC007262, AC004253, AC002133, and AC003101.
HLMDY24	2580	531219	1 - 408	15 - 422	AA336841, and AL080172.
HLMDY48	2581	666518	1 - 118	15 - 132	AC002400.
HLMDY56	2582	518410	1 - 92	15 - 106	
HLMFA56	2583	730947	1 - 285	15 - 299	
HLMFA72	2584	531359	1 - 316	15 - 330	AC002299.
HLMFB58	2585	577643	1 - 352	15 - 366	
HLMFD75	2586	799682	1 - 524	15 - 538	
HLMFG58	2587	573130	1 - 344	15 - 358	
HLMFG66	2588	676040	1 - 435	15 - 449	
HLMFH74	2589	671941	1 - 423	15 - 437	
HLMFI89	2590	526929	1 - 185	15 - 199	
HLMFK45	2591	531222	1 - 253	15 - 267	
HLMFK63	2592	888660	1 - 574	15 - 588	AA305578, AW366296, AW375405, AW177440, D59859, AW360811, D81030, AW377671, AA305409, AW178893, AI905856, D80314, C14389, AW178906, AW179328, AW375406, AW378534, AW179332, D58283, AW377672, AW179023, AW178905, D80022, C14331, D80166, D80195, D80193, D59927, D59467, D51423, D59619, D80210, D51799, D80391, D80164, D59275, D80240, D80253, D80043, D59787, D80227, D59502, AA514186, AW378532, T03269, D81026, D80269, C14014, D80212, D80366, D51060, D80196, D80188, D51022, D80248, D50979, D80219, D80522, D50995, AW352170, AW378528, AW178762, D80268, D80038, C15076, AW377676, AW352171, D57483, AI535850, AW177731, D80439, D59889, D80133, AW178907, D80045, AW179024, D80247, AA514188, D80302, T48593, AW367967,

HLMFK70	2593	856861	1 - 187	15 - 201	AW179020, AW178775, AW178980, AW177733, AW178908, D80132, D80134, D51097, D58253, D51103, AR008278, D88547, Y12724, X82626, A84916, A67220, D89785, A62300, A62298, Y17188, AB028859, A78862, D34614, A94995, D26022, AJ132110, AR018138, X67155, AF058696, A25909, AR008443, I50126, I50132, I50128, I50133, AR066488, AR025207, A82595, AR016514, D50010, D13509, AR060138, A45456, I18367, A26615, AR052274, Y09669, AR060385, AB002449, AR066487, AB012117, A43192, A43190, AR038669, A30438, AR008408, AR066490, and AR060133. AC005486.
HLMFK92	2594	571369	1 - 361	15 - 375	AW361623, AI986246, AA535516, AW128941, AW337206, C16928, and C02317.
HLMFL71	2595	526928	1 - 354	15 - 368	AA150787, AA147514, AC006255, AR026676, AC003695, AC002091, AL050034, and AF083068.
HLMFN24	2596	781780	1 - 313	15 - 327	
HLMFN68	2597	799751	1 - 392	15 - 406	
HLMFR49	2598	842045	1 - 165	15 - 179	
HLMFR72	2599	799709	1 - 356	15 - 370	AW027339, and AA812373.
HLMFU09	2600	909666	1 - 372	15 - 386	AA004442.
HLMFU13	2601	657283	1 - 289	15 - 303	AL133246.
HLMFU39	2602	856872	1 - 326	15 - 340	
HLMFU52	2603	727197	1 - 319	15 - 333	
HLMFU90	2604	699667	1 - 323	15 - 337	
HLMFW19	2605	534799	1 - 302	15 - 316	
HLMGK40	2606	531355	1 - 337	15 - 351	AA668863.
HLMGK50	2607	927675	1 - 289	15 - 303	
HLMGP66	2608	799725	1 - 326	15 - 340	
HLMGP96	2609	531225	1 - 167	15 - 181	
HLMGY13	2610	921457	1 - 280	15 - 294	R98835, N52276, AA165353, AA583579, AA730488, AW085542, AA583568, AW270429, AA682889, AW270351, AI360504, AA052973, W42587, AL036070, AA322542, AW051819, H48413, AA363003, AL048275, T40550, F00564, T39390, AA470567, C15362, T30418, AI268019, N72170, R95840, AC005081, AC005015, AC007114, AL031259, AC007200, AC007687, AL136168, AC000120, AC005920, AL109809, AL132987, AC007225, AL008718, U95739, AF029308, AC004750, Z93930, Z83840, AC002466, AL022313, AC006011, AC002312, AC007051, AC005089, AC007919, AL049780, AC007055, AC005180, and AC005924.
HLMGZ09	2611	625638	1 - 290	15 - 304	AA205292, and AC005180.
HLMGZ33	2612	805813	1 - 295	15 - 309	AA938180.
HLMHD65	2613	799736	1 - 342	15 - 356	AL022331.
HLMHG83	2614	799770	1 - 383	15 - 397	

HLMHG84	2615	572412	1-99	15-113	
HLMHH39	2616	823450	1-479	15-493	AC006117.
HLMHH40	2617	878117	1-325	15-339	D87432.
HLMHH57	2618	714813	1-441	15-455	H44968, AI422305, AI554649, AI433337, AI250867, AI160234, AA503975, R50669, AI672302, AI870048, AW051623, W88425, AW363795, AB022524, AJ012652, and AB012162.
HLMHK16	2619	571414	1-317	15-331	
HLMHK58	2620	799782	1-437	15-451	
HLMHK61	2621	856848	1-342	15-356	AC002301.
HLMHK62	2622	579101	1-193	15-207	AA700441.
HLMHL60	2623	778481	1-220	15-234	
HLMHM63	2624	578838	1-219	15-233	AA765146.
HLMHN21	2625	516580	1-404	15-418	AA285377, AA283300, AW404274, and W24845.
HLMHN27	2626	856846	1-318	15-332	AI344280, and AW274081.
HLMHN31	2627	925730	1-1073	15-1087	AA809335, AA836164, AA972108, AA765694, AA836103, AI364926, AA485705, AA485839, AI357107, AI702527, AW084056, AI310575, AI340533, AA693331, AA127565, AA001397, AI334893, AA669025, X80340, M96857, U86379, AL137479, Y10655, AF068229, AF091084, AL137267, AL137558, AF093119, AL110225, AL080126, and X57961.
HLMHN37	2628	723081	1-339	15-353	
HLMHN45	2629	668906	1-256	15-270	AC005600.
HLMHO11	2630	964945	1-125	15-139	
HLMHO21	2631	799772	1-224	15-238	
HLMHO33	2632	799756	1-313	15-327	
HLMHP67	2633	967636	1-343	15-357	
HLMHP74	2634	953956	1-281	15-295	AA730448, AI174535, AI674840, T90861, AC004257, AF107258, AC003029, Z95116, AC005764, AC008015, AC004491, AL080274, AL033525, Z98044, AC005803, Z73979, AC000353, AL034376, D86993, AL035608, AC004560, AC004876, AC003035, AC005523, AC005529, AL049569, AL078463, AC002350, AL050318, AC004983, Z97054, AC007637, AL049712, AC016025, AC005553, AC005722, AC002558, AL109758, AF196779, AC006511, AC007278, AP000555, AC003101, Z99128, AC000379, AL133445, AC004659, AL080243, AP000038, and AP000106.
HLMHR25	2635	920711	1-297	15-311	
HLMHR55	2636	825530	1-204	15-218	
HLMHS31	2637	752375	1-308	15-322	AB028953.
HLMHS41	2638	574741	1-219	15-233	
HLMHS66	2639	574742	1-582	15-596	AA234939, AI016356, AI742982, AI089004, AA236782, AI468803, AA236830, AW242613, and AA234938.

HLMHT67	2640	579048	1 - 342	15 - 356	
HLMHT94	2641	531054	1 - 271	15 - 285	
HLMHU80	2642	799723	1 - 282	15 - 296	
HLMHFW31	2643	536579	1 - 331	15 - 345	AA351877, AI377249, AI377250, AI239499, AC005274, AL132777, and AL023655.
HLMHY64	2644	866458	1 - 624	15 - 638	AI251696, AI224583, AI254508, AL036896, AI890297, AW338376, AA171400, AI439525, AW238341, AW189371, AA425283, AA642809, AI754926, AA807704, AA469230, AA218684, AI473671, AA669238, AA720582, AI185990, AI801479, AA707747, AA525423, AA679946, AA503298, R99253, AW270468, AI279417, AA601712, AI277373, AI754257, AA084320, AA286836, AW274078, AI278440, N26159, AA197089, AI890468, AA180056, AA713946, AA814503, AI904840, AI860423, AA523812, AI890111, AA828045, AI332615, AA224759, AI744199, AI773523, AA829565, AI913167, AI049994, AI869797, AI800426, AA873737, AW089625, AW328446, AI095206, AL078584, AC005529, AC005527, AL139054, AC006441, AC005940, AC006449, AL024498, AL022316, AC004636, AC004242, AC005225, AL121923, AL121754, AC004973, AC003104, AC006581, AL031347, AC004099, AC004382, AL109798, AC004870, AL122023, AC005520, U52111, AP000510, AC005288, AC006947, AC005914, AC006030, AL031427, Z99129, AC010077, AI251973, AL034420, AC005823, AC005081, AB023048, AC004797, AL021707, Z83840, AL049776, Z82245, U80017, AC006023, AF111168, AC003682, AF111167, AC005210, AC007066, AL049712, AP000089, AC004755, AL022237, AP000141, AC018769, AC007052, AF190465, AC005837, AC003969, AP000501, U73634, AC007488, AC005620, AC007030, AF196969, AP000359, U78027, AL021393, AC004156, AC004263, Y14768, AL031284, AF129756, AC009336, AC006538, AC003036, AD000092, AP000505, AL035072, AF205588, AF015720, AC003007, Z99774, AL022320, D87675, AL035422, AC005070, AC006211, AC006071, AC004638, AC002433, AC005412, AL049761, AL109839, AC005399, AL034548, Z95116, AL022097, AC002347, AC004448, AC007685, AL117258, AC005859, AP000503, AC005803, AL031311, AC005632, AL109963, AC003663, AL033533, AC006060, AL049869, AL033381, AL049793, U82668, AP000694, AF196972, AC007546, AC004967, AC004963, AC005908, AL031286, AC006277, AJ229041, AC002991, Z98051, AF130248, AC008154, AC002045, AC002470, U95742, AC005778, AC005937, AL023803, AL031602, AC004150, AL049552, AC004814, Z86090, AC007216, AL009181, AL078621, AC004409, AC005180, AL109827, AL035458, AC006101, AC004021, AC002369, AC005695, AC009288, AC007563, AC007536, AC004584, U91326, AL031589, AC007708, AC016025, Z97630, AC005160, AC005231, AC002350, AI022165, AC004816, AP000354, AF134726, Z93017, AL023575, AL049759, AL035462, Z80998, AC005874, AF134471, AL033527, AC006948, AP000557, AC002314, AC007096, AL121652, AC012099, AC002544, AP000552, AC007390, AC004583, AL033392, AC008018, AC004004, AL049780, AC007068, AC005730, AC002302, AP000511, AC004887, AC004486, Z81315, AC005411, AL035460, AF207955, AC002367, AP000104, AP000032, AC002094, AC005261, AC006197, U91325,

HLMHZ14	2645	799724	1 - 190	15 - 204	AC007225, AL035071, AC005207, AC007324, AC005800, AC000353, AC003688, AL008718, AC005237, AL034549, AL035086, AC005841, AC007981, AB001523, AF030453, AC009275, AL049872, AC007845, AC005776, U52112, AC005821, AC007021, AC005344, AP000030, AP000211, AP000133, AL021978, AC004811, AL121603, AC004985, AC007774, AL031680, AC004821, AC005358, and AC005088.
HLMHZ59	2646	530071	1 - 184	15 - 198	
HLMIC94	2647	710391	1 - 279	15 - 293	AC002549.
HLMIE70	2648	578795	1 - 289	15 - 303	AC009363, and AC007182.
HLMIF22	2649	572424	1 - 132	15 - 146	AL031282.
HLMIG11	2650	967291	1 - 289	15 - 303	AA559319.
HLMIG50	2651	856845	1 - 572	15 - 586	AA569287, AA603349, AA639913, AA359559, AA524229, AA887181, AA359422, AA424170, AI569363, AW088581, AA491954, AA226519, AA081883, AA328334, AA485092, H61906, AL046471, AI962985, AA226204, Z98742, AC005972, Z83847, AC007277, AC006449, AC007216, AC005510, AC006251, AC005803, AL133445, Z98884, Z82180, AC006453, AL136295, AC004834, Z99716, AB000658, AC004707, AF038458, AC005280, AC006241, AL024507, AC004149, D83253, AF015720, AC004765, AC002565, AL078644, AC006441, AL031283, AC006120, AI229041, AL096703, Z96074, AC006060, AC005529, AC004106, AL022721, AC004878, AF053356, AL034406, AC008372, AL031659, AL132826, AC002563, AC006539, AL109798, AC002300, AC007021, U95090, AL031005, AC005102, AL133163, AC005291, AC006512, AC005599, AC005484, AC007899, AC004821, AF207550, AC004382, AC002347, AC004750, AC004966, and AL031668.
HLMIG72	2652	799747	1 - 317	15 - 331	H67040, W20228, AL049836, Z94160, AF196969, AC004509, Z97054, AC009501, AC006511, AL023753, Z82244, AF031078, AF030876, and AC002407.
HLMIH10	2653	964890	1 - 387	15 - 401	T03401, AA811741, AA488689, W00856, AA192764, T41134, T07327, AI174489, AA470567, H72444, AA364082, AA368329, AA411590, F00937, AA736713, AA434346, H54729, AA827383, AA741403, AI018726, AA481765, T03928, AA634822, AA527030, T83057, AI143653, AA663373, AA748840, AA279649, AI130709, AI536858, AI537995, AW148775, AI814682, AI291439, R95840, AI928890, AA831801, AA230221, AW190277, AA832016, AA668727, T68315, AA626595, AA598889, N80390, AI683019, AA587835, AA214453, AA214457, AA489240, AA713735, AA598497, AW236235, AA605243, AA167809, AA740571, AI873627, N72170, AA910316, AA714073, AA339123, AW272640, H78898, AI040472, AA598740, AA533660, T46997, AA513884, AA135761, AA079076, AW090710, H63220, AW019964, AI150934, AA666066, AA084950, AA846014, AA525407, N47820, H43183, AA515351, AW239465, AI624038, AW337805, AA015948, AA584788, N55296, AA192293, AI362694, AI860535, AI903464, AA084439, AA584531, AI732116, N66744, AA594179, F19019, AI871691, AL039117, AA155817, H78855, AA680221, AA055667, AI114733, AI133552,

HLMIH44	2654	1 - 524	15 - 538		AA773956.
HLMIL62	2655	1 - 422	15 - 436		AL133485.
HLMIMT73	2656	1 - 336	15 - 350		AI880829.

AI003137, AI039257, AI870176, AA831997, T46998, AI669149, AI459879, AA564753,
AA741301, AA601378, AA421536, AI002863, F25759, AA522864, AI054341, AA513484,
AA525807, AA579082, AA827113, AI654520, AA485979, W69639, AI792623, AI003620,
AA587826, AA573062, AA323838, AA132445, AA568950, AW162762, AA808064, X69951,
Z83844, AL079303, AC006241, L78833, AL035414, AP000099, AP000036, U73648, AC002037,
AC004500, AL031776, AL031680, AC005180, U55184, AL023574, AC005777, AC007193,
Z72006, AL031719, AL132641, U95626, Z83820, AC005619, AL109939, AC004675, AC005409,
AF088219, Z98941, U95742, AC007216, Z93848, L12582, AC005331, X64467, AP000348,
AC007565, AC005566, AC004760, AC005778, AL031803, AP000255, AL033392, AC004587,
AL109963, AL049575, AC000379, AC005841, AP000213, AC004522, AL109623, AL078581,
AC004230, AP000347, AL035699, AL035588, AC005215, AP000135, AC004655, AC003689,
AC004838, AC007631, AL096791, AP000031, AC000111, AF165926, AC008014, AC007736,
AL021937, AC011331, AC006538, AC006115, AC005815, AC004025, AC006111, AC006146,
AC005722, AF109907, L05072, AC005943, AC007204, AF043945, AC007537, AC003072,
Z82208, AP000563, AC005895, AC002407, AC005057, AC004132, AL035400, AL031673,
Z82201, AC004886, U52111, AC005730, AC002549, AC002094, AL132987, AC007842,
AC002492, AL135744, Z74739, AC016831, M81596, AC005914, AC007157, M74558, AC005519,
AC004647, AC005576, AL008630, AC004031, AL022327, AC002404, AL023656, AL030996,
AC008115, AL135960, AJ131016, AL110200, AR060469, AP000214, L38592, Z49155,
AC002481, Z69890, AF217403, U73330, AP000302, AF006487, AC005256, AP000534,
AC066950, AD000864, AC005390, AC007292, AC002522, AC005197, AC005620, AC003111,
AC000095, U93305, AF027974, AC005271, AL080242, AL022302, AC005214, U91320,
AC003692, AL031602, AC003041, AC004131, Z98750, AL049612, AL023575, AC005606,
AL109956, AL008734, AF003626, AP000221, AC007421, AL049538, AC006968, AL031594,
AL035249, AP000046, AP000114, AP000074, AP000085, U89337, AL049610, AC005752,
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AL049843, AL080276, AL031447, AF196969, AL008730, AC005277, AL109627, AL050307,
AL132826, AC008044, AC006543, AC005839, Z98745, AC002418, Z83846, AC005681, Z82203,
AC031643, AF064861, AL020997, AC004590, AC004967, U62317, AL031904, AC003969,
AC006317, Z83843, AC005913, AC005913, AL049588, AC005915, AC007676, AC004895,
AL080286, AC009501, AC004674, AC007179, AC002349, AC009542, AC010205, Z98884,
AC006441, AC007387, AC005598, AC012085, AC004882, AC004386, AC003013, AC006385,
AC005697, AC009330, AF196779, AC004485, AC005678, AC004106, AC009509, AC006946,
AC005323, L44140, Z99716, and AFI11168.

HLMIO47	2657	1 - 173	15 - 187	
HLMIP23	2658	1 - 700	15 - 714	R93381, H53163, H28130, R93382, H53060, AW015657, AI092249, T86432, H49391, AW190127, AA625561, AI339159, AW250827, AI357128, AI148823, AI818046, AA579979, AI439571, AI095655, AW246805, W72325, AA379087, AI817450, AI761511, AA625749, AA099988, AW081185, AW389525, AI885881, AA745180, AA805668, H64600, AA211386, W72109, U51698, AA973184, AI358231, AA379088, AA765921, AI744539, AI885882, AW377601, AA291023, AI933181, AI872742, AA992858, AI911887, AI337237, F37915, AA317577, F34702, W77795, H49202, AA732721, AC003103, AF161395, AJ249940, and AF083208.
HLMIQ11	2659	1 - 772	15 - 786	AI034373, H01560, AI760723, AI741933, AI808161, AA829766, AA768221, AA848005, AA824447, AA848006, AA766456, H01464, AA835854, AI222026, and T18554.
HLMIQ72	2660	1 - 358	15 - 372	
HLMIQ73	2661	1 - 386	15 - 400	Z82206.
HLMIQ93	2662	1 - 310	15 - 324	
HLMIR23	2663	1 - 345	15 - 359	AL031651.
HLMIR40	2664	1 - 433	15 - 447	AB020864.
HLMIS03	2665	1 - 337	15 - 351	Z82243.
HLMIS16	2666	1 - 256	15 - 270	AC009731.
HLMIS64	2667	1 - 348	15 - 362	
HLMIS77	2668	1 - 298	15 - 312	AI880168, AW074398, AA435854, AW169687, AI344844, F19258, AA548137, AI345654, W60516, AA515224, AI205126, AW193295, AA747472, AW265654, AI890928, AI160117, AI914706, AW327360, AI963786, AW265197, F29989, AW261871, F28576, AI569086, AI890570, AW166815, AA229785, AI079910, AI865364, AW188544, AI445436, AI708009, AI674873, AI962050, AI358229, AA308806, AW406755, AL079645, AI365988, AI890923, F36273, AI917271, AI284640, AI929531, AA581903, AI051551, AW339687, AL042856, AA559290, AI635272, AW302709, AA244415, AW162049, AI904894, AA515051, AA579184, AL041368, AI818620, AI471374, AI951495, AB57551, AI003743, AI339850, F25203, AW264969, AI252085, AI557323, AW238016, AI252114, AW264973, AL041146, AI792903, AI792864, AI733957, AL038785, AI734002, AW130799, AI623720, AI890052, AW029038, AA641103, AL138265, AW169230, AI251002, AI433187, AI610159, AW080134, AI038279, AA179136, AI349874, AI521618, AA599021, F24284, AI110770, AI473943, AI298710, N71724, AW090811, AW337985, AW338869, AW341892, T71998, AW419262, AI802526, AA715270, AI499503, AA482711, F18974, AI921188, AI471481, AA347927, AW088616, AC006237, AC005827, AC006137, AL031983, AC004816, AC005295, AC005412, AC004931, AC006299, Z98950, AP000354, AF134726, AC004019, Z85996, AC007320, AC004687, AL109628, AC005696, AF001552, AC004065, AC005632, AL049871, AL049775, AC004685, AP001054, AC007161, AC005815, AC005822, AP000292, AL008708, AC005164, AF039905, AC004451,

HLMIS85	2669	578751	1 - 315	15 - 329	AL109618, AC005071, AC006538, AC006071, AP000043, AC005785, AC005250, AC007065, AC004963, Z98043, AL078639, AL133371, AL049219, AL049776, AL117355, AC004866, AL023694, AL035450, AP000097, AL034421, AP000020, AC002483, AJ251029, AJ131358, AB002390, AC002499, AL049860, AF023460, AL117351, AC007539, AL022397, AC004914, AP000240, AC005939, A39972, AC006127, AC006537, AC005568, AL049539, AF196969, AJ003147, AC000958, AC006249, AC004042, AC006561, AL031775, AC004808, AF196972, AL022328, AC005099, AC005488, Z82206, AL035405, AC006026, AC007565, AL031346, AL034370, AL035703, Z98884, AC009891, AP000044, AL049872, M87918, AL035458, AC004008, AC002564, AL133500, AL133396, AC000396, AL033543, AL031675, AP000173, AC006061, AL031905, AC006597, AC003682, AL022476, AF120990, AC005829, AC006950, M26434, AC005393, AL008723, AC004383, AL031651, Z95114, AC002430, L44140, AL021453, AC007387, AC007384, AL118518, AF015725, AL121915, AL049745, AC007558, Z84469, AL031277, AC005341, Z83844, AC004664, AC005040, AJ229042, Z86062, AF123462, AC005740, AL031120, AF125348, AC005592, AC002072, AL031296, U80017, Z98747, AL050318, AL137100, AC005552, AC002059, AC000119, AC006312, AC005823, AL121748, AC004259, AB020867, AL034451, AC002349, AC004072, AL109865, AC006476, AP001172, AC004057, AP001042, AP001043, AL133382, AF017257, AC005091, AL035588, Z95889, AC006996, AL022162, AL080243, AC002316, AL035683, AC006013, AP000355, AL078621, AC004132, AC007064, AC008372, AC002454, AC005996, AC006007, AC009227, AL136504, AL117339, AL031276, AC005902, Z98257, Z69666, AF205588, AC005782, AC002350, AL031276, AC009405, AP000298, AC008041, Z83826, AC004622, AL049834, AC004832, AF088219, U73635, AL008719, AB023057, AC005057, AP000520, AC005002, AF027390, AC003065, AC007245, AC005411, AC005069, AC003041, AL049712, U32581, AB007881, AC006208, AL135746, AJ239321, and AC007488. AA148615, AA826983, AI002177, AA832130, AA501575, AA911524, N94192, N42040, AL048544, AL038936, AW380074, AL046678, H21449, AA176605, AI338426, H42075, R59567, AL043098, AW438916, AW075915, AA172191, N27833, H96518, AL044590, AA319830, AC304977, F32893, AL038909, AA321105, AI471418, AW270258, H15814, AA379332, AI744949, AA226584, AA513850, AA381762, H60188, AA713922, AA381747, AI040473, AI886060, F18350, AA226270, R39626, AI500454, AA744444, AW247819, D44678, AI886365, AI925321, AA745356, W90237, AA570416, AA987962, AA528441, AA379133, AA461308, AA574442, AA488620, N27362, AA599352, AA410926, AA610509, N69316, AA747243, AI298281, AA720746, AW008237, AA804993, AI912322, AW236342, AW078495, N54764, AI932884, AW440976, AA573127, H72688, AA215335, AI446601, AI244758, H55914, AW341903, T48341, AA548087, AA084070, AI075266, AI613419, AA648044, AI291124, AI223616, AA984191, C16699, N27651, AI625468, AI291268, AI537030, AI926681, AI282336,

HLMIS89	2670	572506	1 - 351	15 - 365	AI860677, AA737150, AW129694, AI908628, AA608667, AA657741, R07395, AA213741, AI250019, AI144055, AA758143, AA928904, H52974, AA729471, H48865, R97934, AA513293, AW057776, C05694, AA603156, AA843878, AA055601, R10488, AC003003, AC004814, AL035424, AC004821, AC004797, AF069074, AC002565, AC004996, AP000952, AC002425, AP000500, AC004885, AL110502, AC004918, Z15026, AC004181, Y14768, AP000505, AF129756, AC006142, AC006238, AC000087, AC002418, AP000234, AP000148, AP000233, Z83843, AC004386, AC004527, AC004498, AC005390, AC004596, AP000503, AP000496, AC004217, AC007161, Z86061, AC004835, AL121825, AC007237, AC004231, AC005288, AL022097, AC005399, AL121657, AC004832, AL022067, AF134726, AC005823, AC005746, AC005971, AF048990, AC005186, AF222685, AL035420, AL020995, AF001550, AL031733, AL050326, AC007450, U91319, AC005826, AC000111, U91326, AC005358, AC004167, Z83846, AC006379, AC007151, D45371, AB012165, AL121653, D87001, D86993, Z83855, D88268, AC002559, AC002369, AC002996, Z93017, AC007023, AC005304, AC007371, AC006566, AC005015, U95742, AL121658, AC004765, AB032486, AC005567, AC005360, Z83845, AC004864, AC005740, AC005034, AC008124, AC008067, X74984, AC007216, Z68322, AF148319, Z84723, Z72521, Z69890, Z74019, AC005361, AL031721, Z86001, AC005946, AC000039, Z97183, AL031393, AC005306, Z82097, AC004651, AL121846, AC004236, AC005796, AC006273, AB008681, AL031058, AP000255, AL035072, AL031575, AC005755, AL049653, AC004922, AC004938, AC005480, Z94160, AP000213, Z85999, AL008635, AC002115, AC005584, AC004263, AL031774, AP000135, AL034379, AC002551, AL034420, AL034425, AL031984, Z84720, AP000351, AC006088, AL022326, AL034402, AC006019, AC008044, Y18000, Z93016, AC007283, AC004000, AC002073, Z82214, AC004253, AL035067, AL009028, AL080317, AF114156, AC006455, AC002432, AC005913, AP000031, AP000556, AC004921, AC004020, AC020663, AC006157, AC006512, AC005242, AP000350, AP000356, AC008275, AC005225, AC007263, AL035405, AL035696, AC004882, AC008064, AP000355, AL035089, AC016027, AC011362, AL080243, AC005696, AC006265, AC008080, and AC005081.
HLMIT37	2671	799711	1 - 220	15 - 234	
HLMIT43	2672	799705	1 - 295	15 - 309	AI188748, and AI188321.
HLMIT76	2673	856860	1 - 358	15 - 372	T82950.
HLMIV09	2674	799740	1 - 391	15 - 405	
HLMIW07	2675	871698	1 - 280	15 - 294	U50537.
HLMIW89	2676	799753	1 - 187	15 - 201	
HLMIW90	2677	920464	1 - 310	15 - 324	AW051629.
HLMIX61	2678	727730	1 - 693	15 - 707	AI332830, AI887069, AA883715, H43750, AF031077, AF031078, and AF030876.
HLMIX95	2679	960056	1 - 683	15 - 697	H14342, AI333974, AW015007, AI565858, AW387096, AW387086, AW062872, AW178917,

HLMIY56	2680	1 - 296	15 - 310	AL122052, and AB018336.
HLMIZ02	2681	1 - 366	15 - 380	AL034408.
HLMIZ25	2682	1 - 258	15 - 272	AL135476, and D63478.
HLMIZ40	2683	1 - 241	15 - 255	
HLMIA05	2684	1 - 363	15 - 377	
HLMIA30	2685	1 - 345	15 - 359	AI902968, AI902983, AA291228, D31488, AA324899, D31516, AI969121, AC004235, and AC004034.
HLMJA66	2686	1 - 343	15 - 357	
HLMJA83	2687	1 - 491	15 - 505	
HLMJB04	2688	1 - 293	15 - 307	F19459.
HLMJB23	2689	1 - 309	15 - 323	
HLMJB60	2690	1 - 341	15 - 355	AL042756.
HLMJC35	2691	1 - 287	15 - 301	
HLMJC76	2692	1 - 345	15 - 359	
HLMMA16	2693	1 - 308	15 - 322	AC011504, Z93930, AC006398, AP000247, AL049759, AL020997, U95090, and AC005049.
HLMMA52	2694	1 - 453	15 - 467	
HLMMA76	2695	1 - 326	15 - 340	AL023653.
HLMMC72	2696	1 - 302	15 - 316	
HLMMD05	2697	1 - 401	15 - 415	
HLMMD26	2698	1 - 337	15 - 351	
HLMMD28	2699	1 - 173	15 - 187	AC002400.
HLMMD89	2700	1 - 149	15 - 163	
HLMME77	2701	1 - 395	15 - 409	
HLMMF24	2702	1 - 498	15 - 512	W38578, AI476515, AW207177, AI630843, AI340048, AI807826, AI440328, AI766156, AW136049, AI990469, AI830815, AI951610, AW139134, AI745414, AI620207, AI417731, AI479435, AI700511, AA342377, AW241823, AW139388, AW439228, AI433438, AA935611, and AA872559.
HLMMF82	2703	1 - 262	15 - 276	AC006274.
HLMMG02	2704	1 - 352	15 - 366	
HLMMG23	2705	1 - 331	15 - 345	AC007690.
HLMMI18	2706	1 - 421	15 - 435	
HLMMI86	2707	1 - 331	15 - 345	M63543, and M63544.
HLMMJ08	2708	1 - 427	15 - 441	AI685869, AD000812, and AC002126.
HLMMJ37	2709	1 - 354	15 - 368	
HLMMK28	2710	1 - 447	15 - 461	

HLMMK39	2711	1 - 303	15 - 317	AA400917, AA652249, AC005069, AL133216, AC006213, and AL021307.
HLMMN01	2712	1 - 264	15 - 278	AI792650, and AP001065.
HLMMN32	2713	1 - 430	15 - 444	AA299728, AI336771, T08386, H58891, AA487512, AA579399, AW408767, AA846482, AI890283, AC006538, AC004967, AL022328, Z93930, AC004983, AL132987, U91323, AC004776, AC005988, AL050308, Z98304, AL034548, AF222686, Z86061, AC007685, AP001067, AC002448, AC005342, AJ011930, AB020863, AC004890, AC005157, AP000046, AP000114, AC002492, AL049856, AL109618, AC007687, AF205588, AL020995, AP000317, AP000119, AP000051, AP000166, Z99128, AC005015, AC006960, and AC004921.
HLMMN91	2714	1 - 387	15 - 401	
HLMMO61	2715	1 - 272	15 - 286	
HLMMP25	2716	1 - 326	15 - 340	AI394634.
HLMMP68	2717	1 - 351	15 - 365	AF008203.
HLMMP69	2718	1 - 294	15 - 308	
HLMMP75	2719	1 - 323	15 - 337	H00150, and T20044.
HLMMP88	2720	1 - 671	15 - 685	
HLMMR20	2721	1 - 432	15 - 446	AP000331, AP000172, AP000057, AP000125, and Y17293.
HLMMR39	2722	1 - 271	15 - 285	N62666, AA857377, AA205304, AI762045, AL022328, AC006312, AP000502, AL022326, AL034548, AL034423, AF134726, AC005668, AC005488, AC006044, and AC007537.
HLMMR45	2723	1 - 434	15 - 448	AI249526, N52227, AI963514, AA404287, AA401240, AA287872, AA494038, AA700551, AA704781, AA490908, AA420998, AA421078, F32710, AI241835, AA236867, AA237066, AA188992, AC007371, AP000354, AL096701, AC005668, AC005254, AC006285, AL035587, AL121653, AL008721, AC007686, AF001550, AC002470, AL049776, AC004890, AL024498, AL117258, AC004814, AC005839, AL122020, Z98051, AC005820, Z85987, AP000557, AC005480, AF196970, AC003101, AC005578, U62293, AC005921, AL049759, AL133163, AL008729, AL008582, AP000556, AC004694, AC005702, AC005057, AL096712, AC006561, AL121769, AC004796, AL020993, AC005225, AC007308, AC004883, AC005920, AC006017, Z68276, AL022313, AC004019, AL080243, AL022163, AC004983, AC005291, AP000512, AB023049, AL109653, AL035458, AL109798, AC005500, AL022328, AC005500, AL022422, AC005887, AF129756, AC005726, U95090, AC004231, AC016025, AC005332, AC002422, AC006271, AC005280, AL022318, AC004103, AC002395, AL031055, AC005082, AL121694, AC006271, AC005755, Z85986, AC007731, AC007011, AC005288, and AC008012, AL023799, Z46936, AC002522.
HLMMT08	2724	1 - 672	15 - 686	W90795.
HLMMT22	2725	1 - 416	15 - 430	
HLMMT72	2726	1 - 323	15 - 337	AF111170.
HLMMT74	2727	1 - 353	15 - 367	

HLMMT76	2728	578143	1-296	15-310	
HLMMU42	2729	424663	1-289	15-303	T90204, and AA658177.
HLMMV25	2730	799718	1-447	15-461	W87501, AL138252, AI021938, U52112, AC004802, AC000091, AC005258, AC005519, X63735, AC006430, AC002477, AC005264, X78262, AC008041, AC004463, AL034548, AB022785, AC005377, and AL035414.
HLMMV63	2731	463919	1-544	15-558	AA490121, and AA668334.
HLMMV65	2732	799706	1-441	15-455	AC004983, and AC003043.
HLMMV66	2733	926188	1-436	15-450	AI921541, AI808637, AI792451, AI054048, T29020, AW084519, AA614014, AW271140, AW207518, AA525796, and D30758.
HLMMW06	2734	935621	1-259	15-273	
HLMMW07	2735	953833	1-343	15-357	AC002302.
HLMMW29	2736	577160	1-293	15-307	
HLMMW33	2737	702478	1-270	15-284	U63312.
HLMMW37	2738	577153	1-341	15-355	AC002313, and AC002111.
HLMMW44	2739	716797	1-372	15-386	AA604843, H85059, AW069227, AA664604, F32893, AA878140, AI679294, AA604865, AW302048, AI689019, AI679871, AW438616, R92640, AW103383, AI471418, AI275183, AI634187, H79633, AI457313, AI002261, AA448838, AA574442, AA508873, AA857381, R95748, AI307201, AA311071, AA357987, R83585, AW189068, AA812058, AA613754, H55894, AW402145, AI754291, AA602458, AA528390, T03412, AI124798, R96643, AA393830, AA350886, AI939442, AI962030, AI289962, AA668587, AA558003, AI571543, F29541, AI963856, AA669102, AA488419, W45215, AW275953, AA488620, AA508578, AI500453, AI832865, AI708005, AA832145, AA599495, AI473701, AI279759, AA662974, AW088058, AW238016, AI627581, AI609223, AA721235, R32162, AI292236, N67387, AA457771, R59868, AA302970, AW610509, AW190505, AW072923, AA309287, AA706209, AA601986, AW373604, AW189353, F03525, AA492298, AA513141, AC002312, AL049779, AL031291, AC006441, AJ131757, F17858, AA492298, AA513141, AC007550, AC007878, AL050318, AL008723, AC007243, AC004383, AF111168, AC016026, AF207550, AC007878, AC005046, AL031602, AC000379, AL133448, AC004230, AL031447, AC007386, AP001054, AC001054, AC004149, AC005908, AL049843, AL022324, AC003037, AF001549, AL031597, AC005911, AC003003, AC006965, AP000346, AC006515, AL031591, AC007051, AC007032, AL035258, AC003003, AC006965, AP000347, AL049872, AL031595, AL079305, AF178030, AL035420, AC005004, AP000553, AC002536, AF064858, AC007845, U96629, AC006285, AC004453, AC007057, AL078624, AC004453, AC007057,

HLMMW55	2740	815997	1 - 215	15 - 229	AC003007, AC005412, AL110502, AC005632, AC016025, AC006121, Z86090, AL133304, AB020868, AC009501, AC005081, AC005099, AC002300, AF045555, AC007899, AC004928, AC005189, AL049745, AC004582, AC005822, AC004659, AL031775, AC007283, AC004448, AC002381, AC007444, AC004924, AB023049, AC007736, AP000103, AC006229, Z68288, AC007151, AC009178, AC006257, AL031120, AC005094, AL050321, AC008009, AC006992, AC002452, AC005900, AC000082, AC006012, AC004764, AC005284, AC007566, AL121820, AC005921, Z84488, AP000350, AC004967, AP000705, AP000269, AC004647, AP000354, AL049569, AC007372, AL132985, AC007461, AL049837, AL096710, AC005369, AC005837, AP000355, AL049874, AC007225, AL133500, AC004382, AL035587, U07000, AC010582, AC006130, AP000356, AC011311, AC006465, AC004167, U82828, AP000512, AC007263, AL021808, Z97989, AL117356, AL121782, Z99129, AC004471, Z96074, AL031432, AC016831, AC004002, AC007304, AC007226, AP000108, AP000040, AF111169, AC004854, AC005736, AL022722, AL008715, AL080286, AL049776, AC006026, AC006271, AC007242, AL022476, Z93020, AF015262, AL031848, AP000248, AC005914, AJ229043, AC005399, AC004142, AC005384, AL034555, AC000353, U91327, AL031133, AC007201, AC002544, AC006538, AF130343, AP000345, AC007652, AP000127, AP000205, AL035703, AC005932, AL023553, AP000496, Z85986, AL079334, AC008012, L78833, AC006251, AC004966, AC003991, X87344, U85195, AC005730, AC007676, Y10196, Z95125, AC005566, AE000658, AC005726, AC003029, AP000252, U47924, AC002554, AC005332, AC006160, AE002546, AC004066, AP000212, AP000134, AF126403, AL133163, AF190465, AC005029, AC003689, AL078462, AC000059, and AC007237.
HLMMW71	2741	761346	1 - 239	15 - 253	H59354.
HLMMW77	2742	577150	1 - 290	15 - 304	AA300028, and AA299804.
HLMMX19	2743	861317	1 - 580	15 - 594	AA630476, AI797998, AI360521, AI174703, AW403177, AL036896, AA382050, AI433952, AL121039, AI702049, AW020094, AA526542, AA425283, AB355246, AW265468, AI572680, AW419201, AA491941, AW410409, AW021399, AI547110, AA631915, AW148964, AI819419, AA084439, AI252005, AI254463, AA601376, AA199578, AI813920, AW023975, AI065031, AI798521, AA809125, AI570067, AW243817, AA493546, AI114543, AA640305, AW410844, AI150934, AA133568, AA199582, AI732690, AI439525, AI567676, AI242236, AA167656, AA524604, AI003068, AI753904, AA814719, N27362, AA598608, AI064968, AA632355, AI744963, T34066, AI568376, AI889236, AW104161, AI052366, AI889177, AW085626, AA555232, AA533066, AA557945, AI702018, AI343986, AI701898, AA601712, AI370470, AI745666, AW007420, AW069273, AW151247, AA593168, AL044966, AI445768, H53546,

HLMMX57	2744	734985	1 - 375	15 - 389	AW182182, AA551105, AA148618, AI031759, AI285651, AA524800, AI040051, AI675913, M77888, AA600127, AI760835, AA533040, F23338, AA482725, AA493245, AI312614, AL037910, AIT33523, AW192930, AI311796, AA525753, AI925588, AA421536, AI308529, AJ003147, AC005730, AC002310, AL079342, AC007367, AL049869, AC005484, AP000512, AL049694, AC005619, AFI29756, Z98742, AC005921, AC006597, AC004796, AC004150, AC005071, AC005696, AC004659, AP000552, AC005412, AP000504, AF205588, AF111168, AC004997, L44140, AC005585, AC005602, AC002314, AC005971, Z97054, AL020995, AC006511, AL022721, AL080286, AC006011, AC002091, AC004922, AC005082, AC005828, AC005632, AL022316, AC004985, AC018633, AL121658, AC008044, AC004967, AC005527, AC005529, AB017602, AC004895, AL022165, AL049697, AL031575, AC004477, AC004859, AP000499, AC004692, AC005365, Z84466, U91318, AC006530, AL080243, AF134726, Z83838, AC000025, AL031848, AC005041, AC012384, AF196779, AC007546, AL080317, AC005919, AL009181, AF165926, AP000952, AC007160, AF075069, AC003685, AC004999, AC002470, AC002404, AC005261, AC005876, AC005746, AB026898, AC008372, AL133448, AL080250, AL121652, Z97630, AC006121, AE000658, AC005046, AC005913, AC002366, AC006080, AL133243, AC005193, AC005524, AC004805, AC002349, AP000503, AC005280, AL117337, AC005037, Z83844, AL031666, AL133304, AC005519, AC005399, AL133289, AC004703, AC007421, Z93930, AL034420, AC005754, AC005695, Z84469, AD000671, AC007371, AL035587, AL024474, AC006088, AC006544, AL035445, AL021154, AC002364, AC004552, AC005410, Z93244, AF001548, AL049795, AC002996, AC003665, AC004084, AL022149, AL034402, AC005479, AL079295, AC006211, AC006512, AL031433, AL133163, AC005740, AL022163, AC006581, U52112, AC002126, AC007899, AC005387, AL008582, AC004821, AF038458, AC007390, AC004893, AC007842, AC005231, AL136504, U91327, AL031311, AC007564, AC003982, L47225, AC005666, AC002312, AC003007, U80017, AC005755, AC005089, AC006312, AL031657, AC005881, AC007566, AL121655, AP000553, AC006515, AC007510, AC006449, AC005081, AC005856, AC004814, AC007381, Z84474, AC004223, AC004882, AC005317, AC007192, AL117258, AC002551, AC006241, AP000365, AL117330, AC004228, AC007226, AC004125, AP000547, AC002991, U78027, Z77249, AC004969, AC012099, AL031427, AL031290, AC005393, AC007124, AL050324, AC004797, AL136130, AC005232, AC005031, AC006116, AL121754, AL049764, AL031678, AL031680, AC002120, AC002306, AC005694, L47226, L47224, AC004752, AL035659, AF196969, AC004804, AL122023, AD000091, AL121657, AC003025, AC005015, AL034417, AL022323, AC005822, L78810, AL136295, AC006960, AL132712, AP000556, AC007227, AL034343, AL049777, AC004783, and AC006946.
HLMMX72	2745	760651	1 - 221	15 - 235	W73175, W73147, and AF086335.

HLMMX73	2746	764455	1 - 334	15 - 348	AW020095, AI538885, AI686576, N22276, AI859693, AA810985, AW161402, AI811192, AA420722, AI440238, AB34893, AB40604, AI345639, AI49960, AI310930, R80916, AI345745, AI377163, AB48995, F35534, AW084447, AI336495, AA761079, AI254457, AI312993, AW021059, AI680194, AI345014, AI520964, AI624138, AI002285, AI440397, AW089379, AI348895, AL045672, AI758538, AI567582, AI307520, AI345026, AB07454, AI352363, AI345562, AI340664, AI310592, AI307542, AI345817, AI288076, AI344808, AI345739, AI345674, AI671642, AW021189, AI312143, AI349637, AI312168, AI334920, AW071276, AI344779, AI310927, AI307515, AI307578, AI336488, M85164, AL133640, AL137479, Y10655, AL122093, AL050116, AF033827, AL137267, AL049276, AL117435, AF175903, U79457, AB007812, Y07915, AL122110, AL117575, AL17438, AR022283, L52013, AL049426, AL137465, AL137641, AL110280, AB016226, AF118090, AL117457, AL136842, AF201468, AL137262, U89295, AF145233, B3391, AF069506, AL137258, AF042856, E13052, U53505, and AL110269.
HLMMX85	2747	783429	1 - 192	15 - 206	AI050812, AI827703, AI827584, and AF127916.
HLMMY01	2748	916636	1 - 568	15 - 582	
HLMMY03	2749	924511	1 - 506	15 - 520	
HLMMZ13	2750	856802	1 - 444	15 - 458	AL135357, AA064815, AA707879, AC006947, AC005399, AC005037, AC002563, AC005411, AC004148, AL024507, AC004106, AC002470, AL121652, Z83822, AC005538, AL096791, AC005031, AP000555, AC004998, AC007129, AC004491, AC006430, AC005921, AL022320, AL096763, AL031680, AC006271, U80017, AC005300, AC005666, AL049779, AC005180, AC007685, AL031311, AL031643, AF200465, AF111169, AL121578, AC007773, AC007263, AC006441, AC006946, AL021154, AC006966, AC007649, AC006515, AL022312, AB003151, AF139813, AL133353, Z83844, AC005179, U52111, AC005821, AC003684, AC005332, AC002045, AC002430, AL009183, AP000044, AP000112, AL121655, U95742, AC005620, AC007066, U95743, AC007384, AB020868, AC004983, AP000690, AC007216, Z97876, AF024534, AC002350, AF111167, AC004499, and AC006014.
HLMMZI6	2751	927659	1 - 143	15 - 157	AI832562, AA115758, AA112944, and Z93784.
HLMNA14	2752	918207	1 - 680	15 - 694	AW007018, AI797782, AI082366, AI004621, AI961043, AI568510, AI479909, AW243347, AW005434, AW072053, AW205104, AI950423, AA220947, AI824907, AW136734, AA932943, AA227014, AI937632, AI654366, AI968787, AW137409, AW136158, AW137226, AA126260, AI392819, AI420238, AI656029, AI420881, AW051726, AII99450, AI767282, AI206270, AI700009, AI245711, AII738987, AI738427, AI860164, AW302243, AI936399, AA888132, AI805239, AI738729, AI474889, AW197199, AA218581, AI568827, AI882249, AA662157, AA398373, AA887699, AA582927, AA126364, T85626, AI878821, AI684228, and AI498040.
HLMNA84	2753	577572	1 - 725	15 - 739	AI554874, AA228131, AA227984, AW377797, AW377774, and AA227773.
HLMNA88	2754	856809	1 - 428	15 - 442	AA935428, AW002831, AA507814, AI186438, T06210, AA492584, AA558404, AA303055, T94140, AW104163, AI870453, AA365135, AA772906, AA668291, AA225406, AW272294,

HLMNA91	2755	765862	1 - 434	15 - 448	H65824, AI452836, AI587467, AA713705, AA599712, AA779783, AI369580, AA484164, AA831903, AI217131, AL048002, AI635028, AA224593, AA720582, AI274011, AI923451, AA508036, AA525293, R64617, AL134332, AI860751, AI923458, AI918419, AI580707, T10586, T56727, AA515138, AA487569, AA516320, AA747234, H71678, AC006965, AC004865, AC005291, AC007130, AL118510, AC004778, AL031672, AL008718, Z97353, AC010205, AL109627, AC004491, AC006120, AL135744, AL035685, AL035458, AL035405, AL031121, AL022327, AP000555, Z84484, AC003013, AC004836, U52112, AC005274, AL033517, AC006960, AF205588, AC002300, AC005696, AL050321, AL022320, AL035410, Z95115, AC004106, AC006312, AC005015, AL009181, AL049779, AC006013, AC005049, Z99127, AC007686, AP000556, AP000557, AC006449, AL034420, Z93020, AP000884, AL035400, AL049539, AC006455, AC002429, AF001548, AC002476, AC006121, AC008372, AC004686, AC006479, AC000025, AC005280, AC008273, AC002312, AF109907, AC004098, AC011311, AC004000, AC007687, AC006165, AB023051, AP000512, AC008249, AC007199, AC005002, AL031643, AF001550, AC005409, AL034351, Z98304, AC004605, AC007016, Z85987, U82828, Z83847, AL049843, AL034400, Z95116, AP000696, AC003010, AC005529, AC005921, U80017, L78810, AP000288, Z82097, AC005563, AC005784, AC006071, AP000109, AC003104, AL008635, AL035419, AL049759, AC004881, AC007041, AL031594, AL080243, AC004913, AP000256, AC006254, AF053356, AL117339, Z98946, AC004020, AL031589, AC005225, AC006946, AL035699, AC003041, AC007934, AC005288, AC018633, AC005180, AC005037, AL109758, AC004933, AC008085, AC003029, AP000098, AP000692, AC004859, AL031685, AC002456, AC002369, AC003108, Z94721, Z98048, AC004209, AL031283, AP000008, AC007371, AL009172, AC003982, AP000704, AC016027, AC005871, Z83838, AC016830, Z93023, AF196779, AL035658, Z93017, AL022319, AC004167, AC003663, AL096774, Y14768, AC004998, AL136504, Z98050, AC006487, D42052, AC004531, AL034561, AP000505, Y08837, AC005913, AP000466, U95739, AC005368, AL035417, AF035587, AC004656, AC004031, AL031279, AL049748, Z82174, AC003967, AJ225782, AL109852, AP000243, AL050341, AC007129, AC004743, AL034551, AF159056, AC003667, Z97989, AL133353, AC005618, AC005736, AL035587, AC007011, U93305, AC005837, AC004647, AC007842, AL034553, AB014077, AL139054, AL031767, Z97056, AC005837, AL035078, AL031846, AC004242, AC000353, AC005822, AL022323, AF003626, and AC003025.
HLMNB08	2756	959559	1 - 348	15 - 362	AL135666.
HLMNB94	2757	575838	1 - 245	15 - 259	AA730982, AA278761, and AA815056.
HLMNE84	2758	760695	1 - 348	15 - 362	
HLMNG08	2759	876147	1 - 902	15 - 916	AI732794, AI821335, AI379196, AA486273, AA486272, AI734181, AA228776, AI821049, T64007, AI865113, and T64086.

HLMNG68	2760	921008	1 - 328	15 - 342	H01560, and AI034373.
HLMNH23	2761	787043	1 - 419	15 - 433	W92492, and T80433.
HLMNH25	2762	575921	1 - 393	15 - 407	
HLMNI37	2763	920361	1 - 357	15 - 371	
HLMNI69	2764	531356	1 - 224	15 - 238	AC003111, and AC004798.
HLMNL01	2765	835623	1 - 256	15 - 270	
HLMNL06	2766	935626	1 - 456	15 - 470	L44341, AA283762, AA825204, AA282978, AW150394, AI460103, AA130647, F19258, AA601492, AI679379, AI679888, H54443, AA079421, H55779, AW172908, AA364488, F13749, AA467730, AA847099, AA603323, AL135643, H84359, H62778, AI751162, AW162288, AI124660, AA878149, AI696793, AL047317, AI537185, AA078677, AA443065, N55357, AA714140, AI025517, AI709066, AA225155, AA658235, AI689019, AW276435, AI193694, AA947837, AA554293, AA482757, AI138344, AA526514, C06471, AI867044, AA654627, AL039187, H69588, Z30128, F29989, R54896, AI286264, AA650244, AA776971, AA772016, AW238127, AA385100, AI358229, AW406755, AI467877, AW157005, AI365988, AI028510, AA319218, AA558697, AA299601, AW003434, AI610603, AW339687, AI801591, AI914913, AI635272, AA021552, AI499503, AA558269, N87410, AA826144, AA243452, AA321719, AA310158, AA496901, W38648, AI301218, AA482788, AI287528, N43757, AL040462, D56053, AA077952, AA252763, AA516207, H68112, AL041368, AW271917, AA450199, AA577748, AI345522, AI357551, AA569202, AI344844, AI287787, AI561335, AI907884, AI913017, AL119438, AI149915, AI921649, AI378729, AA828696, AW304531, AA228329, AC005529, AC004854, AL096701, AC003035, AL035400, AC007688, AL109984, AC006285, AC002430, AC016025, AC007384, AC006273, AC005086, AL033539, AC005089, AC005527, AC000025, AC005288, AL121694, AC002991, AC005971, AC004794, AC000076, AC005399, AC005839, AC018769, AF148319, AC006996, AL031577, AC005531, AC004098, AL117258, AC004531, AC004386, AL109827, AP000502, AL021808, AL021707, AC006449, AC002480, AC006476, AF196779, AL021546, AL049757, AC007546, AC005062, AC007021, AF128893, AL031281, AC006013, AD000090, AL034349, AL050325, AL031685, AL034420, AL080242, Z86090, AC006509, AB017654, AC004076, AC003041, AL050341, AL080242, AP000692, Z83849, AC009501, AC005264, AC003046, L78833, AC005324, AC006012, AC008033, AL132642, AF053356, AC004622, AL031255, AC005747, Z69917, AC003982, AC006208, AC002418, AC004966, L78810, AL035415, AC005932, AB003151, AC007199, U52112, AC007899, AL080243, AC005696, Z82198, AC006501, AC006130, AC005914, AL049539, AC004596, AB023052, AC007226, AL096763, AL133371, AC007845, AC005914, AC000015, AL034419, AC005746, AL132712, AL023513, AC007216, AL031650, AC004019, AC000015, AL034419, AC005746, AL132712, AL031280, AC010205, AL022237, AL034423, AC008079, AL049795, AC006064, AC004236, AC005409, AC004913, AP000128, AP000206, AC010197, AC007878, AC006511, U73168, AC003958, AC005940, AL034429, AL008629, AC000134, AL035407, AC004491,

HLMNL08	2767	839948	1 - 402	15 - 416	AC004975, AP000215, Z93783, AC002554, AC004895, AC005049, AC002116, AC005837, AC004099, AC005225, AL022721, AP000474, AC002476, AC007030, AC012599, AL022336, AC005786, AC003667, Z84480, AP000704, Z83822, AP001051, AC005019, AC002565, AL023803, AL022316, AC006111, AC002470, AC004534, AC002064, AC005193, AL033527, AC002485, AL049780, AL133304, AL031848, AL024498, AF107885, AC006530, AC005209, AL034417, AC004152, AF027390, AC000021, AC000022, AF164343, AL033533, AC020663, AC007707, U62317, Z85987, AC004542, AC002350, AC005944, AC007327, AL110114, AL110502, AL023807, AC004478, AF030453, AC005498, AC007228, AC005536, AL049779, AC005879, AC006041, AL034350, AL035681, AC002984, AC006055, and AL031053.
HLMNL23	2768	675970	1 - 323	15 - 337	AW291682, and AW084373.
HLMNL55	2769	964739	1 - 268	15 - 282	
HLMNL57	2770	575900	1 - 132	15 - 146	
HLMNL64	2771	578627	1 - 296	15 - 310	AW237905, AI279417, AL137946, AW327852, H93152, N59744, AI284543, AI933111, AI915081, AI284092, T56025, T08386, H79586, AI798313, AA807579, R83068, AA584484, AI251944, AI890862, AI524022, AL121130, AI251034, AA878407, AA010973, AA302978, AI419337, AI280574, AI361090, AW128881, AI859906, AI358712, AI421950, AI884861, AA610255, AA365980, AI859438, AW410481, AL046416, AW026305, T07225, AA378474, AA834764, AW188791, AI254770, AI254508, AA372736, AI188049, AW090629, R49266, AA683091, AA350406, AA371410, R88803, AA215585, AW247389, AA047849, AA636102, N47855, AW132097, N52323, N33851, AI914713, AW265688, AI254798, AA343894, AC004099, AP000301, AF039906, AC005046, AL008718, AP000208, AC005188, AP000247, AJ246003, AP000841, AC012085, AP000045, AP000555, AE000658, AC004185, AF001548, AC004451, AL109827, Z98752, AC004491, AC003957, AP000509, AC004821, U85195, AP000692, AC006088, AL121653, D84394, AI096702, AL035072, AC004770, Z98200, AL022396, AC004228, AF109907, Z82190, AC005409, AL023513, AC004770, Z97056, AC002404, AC002326, AC004477, AC002045, AC004814, AC005317, AL121658, Z97056, AC003692, AC004858, Z75887, AC000052, AL050343, AC006948, AL035461, AL031985, AC005288, AF015720, U80017, AC005588, AC018725, X51956, U91323, AC005280, AC006953, AC007993, AC007228, AC000085, AF196969, AC002039, AC004656, AL008583, Z84466, AC004019, AC005378, Z83840, AC004999, AC005156, AL109963, AL031281, AL049576, AL133246, AD000092, AL035086, AC002369, AC002477, AL009031, AL022238, AL021879, AP000553, AC002476, AL200997, AC004796, U91318, AL009031, AL031622, U93305, AC005538, AL133382, AC005924, AC004129, AL023807, AC007376, AL049780, AC003956, AC007450, AC007214, AC006441, AC005484, AC005089, AC009516, AC006516, AC004983, AC006958, AJ229041, AL050348, AL031594, Z93020, AL117330, Z83826, AC004858, AC005095, AC006040, AF031076, AL034418, AC002551, AC005180, AC006312, AC007157,

					AF217403, AL009051, AC007899, AC006557, AL080317, AL034423, AC009247, AF030453, AL024493, AC006059, AC005274, AC004623, AL031589, AC004844, AC002316, AC007934, AC004585, AC004706, AL080243, AC007066, AL021393, AP000130, AC003026, AL009172, AL008639, AC005972, AC009248, Z82215, AC005037, Z98949, AL049843, AC004583, AC006538, AC005772, AC006947, AL031659, AL035455, AC004383, AP000065, AC005213, AC004884, AF111168, AC004950, AL049871, AC008372, AC004097, AC005316, AP000696, AL049830, AL049793, AC005102, AL022327, U95740, AC005881, AC006362, AC004804, AC007406, AC006241, AL049759, AC007381, AC005233, AC007666, AC004629, AF003626, AL035681, AC002381, AC004386, AC002994, AC005726, AC004854, AC005291, AC006468, AC002425, AL035659, AC006000, AC005391, Z93023, AC005088, AL022476, AC007308, AP000103, AC006160, AC006277, AC012627, AP000359, AC004967, Z83844, and AC004526.
HLMNM19	2772	668746	1 - 428	15 - 442	AC007240, AB000876, AC004181, Y14768, AP000505, AB000882, and AC006011.
HLMNM39	2773	577649	1 - 437	15 - 451	AA532744.
HLMNM44	2774	577106	1 - 187	15 - 201	
HLMNM61	2775	575889	1 - 342	15 - 356	R44592, AI284595, AA572975, AA017690, H71585, AA744272, AI611440, AA515224, AA743966, AI859469, AA243452, N25037, AA601270, AA807579, AB356264, AI040051, AW275674, AL033518, AC004787, AC003081, AC002395, AP000130, AF196779, AP000247, Z83840, AF130343, AC004150, AC001228, Z95115, AC006021, Z97876, AC005696, U95743, AL117694, AC004890, AC006484, AC006512, AL096791, U47924, AL034420, AC005899, AC003037, AL022238, AL109827, AL022316, AC006539, AL049757, AC002544, AC012083, AC002059, AC005874, AF134471, AL132712, AP000553, AC006023, AC009516, AC005353, AC006239, AC005081, AC004963, AL135745, AC012384, AF001548, AF106656, AF053356, U07563, AP000475, AC007666, AL121658, AL121653, AC020663, AC007114, AP000008, AL133448, AC005370, AC004079, AC000026, AC007011, AC005233, AC005488, Z82203, Z85986, L48038, AC007055, AL135783, AL035659, AC004859, AC004821, AC007156, AL096701, AC006146, AL031681, AC005064, AC004955, U95742, AC004989, AC003015, AC004983, AF059675, AL022320, AC007193, AC004816, AF001550, AF190465, AC016025, AC006380, AC004258, AC004895, AC006362, AL021546, AC005330, AC004909, AC005399, AC005157, AP000501, AC005952, AC005015, AL008582, AC004583, AC005668, AC002070, AC005786, AC004885, AC002477, AC008123, Z81450, AC004643, AL050318, Z93783, AC006261, AC004013, AL117352, AL022326, L29766, AC005841, AP000472, AC005971, AC007216, AC005755, AC004408, AC004662, AC005225, AC004655, AF019413, AC006978, AL031594, AB023054, AF111168, AC005484, AC005202, AC005291, AC004921, AC006014, AC005180, AF165926, AP000031, AF064861, U91326, AC003689, AC006948, AC006042, AC007686, Z86090, AC006480, AL035451, AC008372, AC005562, Z93018, AC005837, and AL021977.

HLMNN02	2776	920296	1 - 387	15 - 401	
HLMNO52	2777	968377	1 - 539	15 - 553	AA669135, AI659453, AA744875, AI418094, and N86865.
HLMNQ35	2778	575906	1 - 339	15 - 353	AA115833.
HLMNT27	2779	752366	1 - 290	15 - 304	
HLMNT62	2780	745733	1 - 240	15 - 254	
HLMNU73	2781	577693	1 - 443	15 - 457	
HLMNW94	2782	577157	1 - 382	15 - 396	AA077367, AA678404, AA631482, H11448, AI018726, AW075863, AI439045, AA627180, AW080061, H57324, AA767864, AA078225, AA809049, AI751049, AA613450, AI821659, AA643451, AA806116, F24531, AI369076, AI690497, AA558404, AA657910, AI732243, AA603432, AI903464, AW084152, C05882, AA838162, AA774006, AI537814, AA706845, AA429481, F31203, H69179, AA658018, AW409692, AA507526, AW069227, AA640252, AW074839, R33826, AI694178, AA683154, AA372881, AI251576, AI634187, AA720750, AA985145, AW117831, AA728890, AI306232, AA482786, AI457313, T98651, AI339302, AI583466, M60806, AC007225, AC005412, AC006050, AF042084, AC000050, AL031681, AL022336, AC009363, AF111167, AC008008, AL023575, Z82976, AC005245, AF031077, AC004152, AR060471, AC005295, AL031427, AC007205, AC004975, AC005839, AL079301, AL031602, AC004662, AC007227, AJ251973, AC005006, U65406, AC004856, AC009247, AL096791, AC005231, AC002040, Z67997, AC007421, AL022166, Z83820, AC006312, U29953, AC004596, AC004134, AC004983, AC008119, AC009399, AC005740, Z68226, AC004878, AL049697, AC002550, AC004143, AC003109, AL021368, AC005355, AJ006998, AL133241, AL121769, AC004019, AC006480, AP000967, AL031670, AC007676, AL021937, AC004962, AF200465, AC005399, AC008012, AC018725, AC006512, Z82097, AC004967, AL008734, AC005902, AC006597, AL009182, AC004016, AC004796, AC003964, AP000547, AL009181, AC005747, AC006581, AC007040, AC007312, Z93023, AC005615, AC002036, AL078581, AL022098, Z85986, AC005670, AP000354, AC006014, AC005514, Z82198, AC005895, AB020860, AL031735, AC005089, AC006112, Z82172, AL132777, AL049874, Z85988, AC005071, AC006211, AL049631, AF002223, AC004447, AF170815, AC004007, AL049557, AC003687, AC007993, AC007968, AC004492, AC004030, AC006084, AC005838, AJ000219, D89927, AC002400, U02047, Z92542, AC004535, AL031588, AC003686, Z81450, AC004820, AC004652, AC006505, U91321, U95740, AB023049, AL033547, AC006388, AC005202, AF121781, U73169, AC006213, AP000228, S83170, AF196969, AF031075, AC006160, AC004528, Z95116, AL035079, AL022316, M37468, AC005863, AC005548, Y11107, AC004798, AL096755, AP000140, AC005488, AL078583, AC005924, AL031053, AL021878, U52112, AC006205, AC007435, Z69667, AC004589, AC002310, U63630, AF146367, Z99755, AC003104, AF124523, AC008928, AL049795, Z97056, AC004896, AL035045, AC006208, AC006441, AC003070, AP000088, AP000513, AL117344, AD000092, AF001552, U51022, AC007899, S77764, AP000694, AC004485, AF001549, AC005036, AC005621, AL049861, AC009248,

HLMNW96	2783	799745	1-303	15-317	AC005829, AC005694, AL121825, AC002978, Z82188, AL022318, AC007226, AF030876, Z82245, AC002492, U73647, AC007229, AC002389, AC004253, AC004099, AL049636, AL024498, AC005387, AL080242, Z81365, AC005793, AF193805, Z84469, AB015355, AL008582, AF050154, AF036405, AL133382, AL035249, AC005180, AP000403, and AC002549.
HLMNX15	2784	660316	1-283	15-297	AC005786.
HLMNX33	2785	702477	1-409	15-423	
HLMNX74	2786	765800	1-390	15-404	
HLNSF63	2787	509519	1-373	15-387	
HLNSG27	2788	684650	1-445	15-459	N62681, AW294240, H52686, AA084683, R00069, H73623, R97012, and AC004263.
HLTAA66	2789	503025	1-296	15-310	AA360344, and N43168.
HLTAA94	2790	503019	1-263	15-277	AA360440, and AA360442.
HLTAI12	2791	971523	1-880	15-894	AA902933, AA041224, AI078764, AA252233, AI373074, AW389244, AI141267, AI218278, H48161, AA235335, R76651, AI243996, AA360624, H49948, AA234675, R55221, AA011520, AA361876, AW021446, N63621, and R55222.
HLTAI56	2792	960750	1-305	15-319	AA360647, and AA361867.
HLTAL59	2793	508603	1-294	15-308	AA360498.
HLTAR67	2794	578467	1-325	15-339	AA360891.
HLTAR90	2795	524360	1-507	15-521	AC360930, T50676, F35684, AA302978, AA652868, AA878140, AA604550, AI912401, AA568204, AA570740, AA483606, AI143653, AI583142, AA846923, AA643770, AI362442, AA302661, AA297006, AW304699, AA502498, H84412, AI185394, AC002470, AC005529, AF001552, AC005324, AC005280, AF109907, AP000134, AL035400, AC004966, Z98304, AC005520, AC008072, AC002492, AC007308, AL049569, AC005081, Y18000, AP001052, AC006530, AL133246, Z95152, AC004858, AC002480, AC005821, AC003080, AC007327, AC005516, AC003982, Z97053, U91326, Z99127, AL050312, AC004383, AC012384, AL022316, AL031321, U96629, AC005913, AL050348, AL031230, AP000208, AC007051, AF053356, AL035405, AF088219, AP000503, AF134726, AC004531, AC004796, AC002429, AC004692, AC006001, AL049776, AF196971, AF038458, AL049759, AC005730, AC005874, AF134471, AP000212, AF030453, AC004622, AC000353, AC006261, AL050318, AL022313, AC006111, AL021453, AL049538, Z98884, L44140, AC004263, AC005180, AL096791, AC008273, AC004253, Z98048, AL023803, AC007686, AL022320, AC007993, AC007637, AF111168, AC006040, AF111169, AL139054, AC005839, AL031291, AC007993, AL031295, AC009516, AC005755, AC004805, AC005231, AC007225, AB001523, AC002558, AP000113, AC005089, AC005822, AL022165, AC005041, AC007204, AP000088, AC006539, AF196970, AC003101, AL121603, AL022311, AL035086, AC007151, AP000359, AP000359, AL096701, AL049872, AF047825, AL034351, AC005189, AL034549, AC004644, Z83822, AC002565, Z93017, AC004854,

HLTAT22	2796	508592	1 - 314	15 - 328	AC004098, AP000228, AC006597, AC004668, AC020663, AC005488, AL031680, AC004876, AC009044, AC000134, AL031432, AL022067, AC005412, AC004542, AC004491, AC007664, AC002094, AC006026, AC007371, AC005086, AC004526, AC002072, AC002477, AC004851, AL049780, AP000140, AC002544, AC004859, AP000350, AC004382, AC006312, AC008115, AC005625, AC005914, AC006480, AC004964, AB020868, AC004882, AF024533, D87675, AF196779, AP000298, AC006064, AL049843, AL022336, Z83844, AL096678, AC002425, AC006088, AL031279, AF039906, AC002997, AC008044, AL021155, I34294, AC003110, AC003663, AL117694, AC007676, AF196969, AC004584, AC006241, AC006388, AC005920, L78833, AC006101, Z98051, AC004797, AJ003147, AC002316, Z83826, AC004821, AC005082, AF030876, AL031685, AC005531, AC005844, AL034548, AL079342, AP000704, AC004150, AC007055, AC005736, AC007226, AC004752, AC006125, AC006305, AL022329, and AC006254.
HLTAT93	2797	575133	1 - 360	15 - 374	AA360946, and AA361888.
HLTAU67	2798	703103	1 - 337	15 - 351	AA360810.
HLTAW36	2799	536674	1 - 289	15 - 303	AA361017, R58095, AA332883, R57856, and AF023244.
HLTAW69	2800	753707	1 - 585	15 - 599	AA361018, AI440178, AF039235, AA315994, AI916936, and AA358918.
HLTBL46	2801	508925	1 - 494	15 - 508	AA361102, and AI433714.
HLTBN29	2802	703295	1 - 452	15 - 466	AA361122, and AA361407.
HLTBO49	2803	839804	1 - 345	15 - 359	AA361696, AC003026, AL109613, AL121653, AL109758, and AC005378.
HLTBU04	2804	928005	1 - 430	15 - 444	AA361716, AA361734, C14792, C15837, C15309, C14683, C15809, and AC005670.
HLTBW51	2805	522881	1 - 340	15 - 354	AC004990, and AA361956.
HLTBX34	2806	856609	1 - 244	15 - 258	AA362009, AA339932, AA507975, AI921692, AA230221, AA610255, AI274006, AI567831, AI445768, AI340858, AA586553, AI889648, AI613487, AI336206, T08386, AA774119, AA470490, AA362440, F16409, R79396, AA828613, AI434103, AW407007, AI124558, H01852, AI114645, AA358531, AA829693, AL038842, AA525238, AA112864, D25667, AA655037, AL134332, AA523718, AI744890, AI744381, R48980, AA661554, AW169469, AA157876, AI752977, AI554399, AA046906, AI446574, AA446931, AI636422, AA828840, R64110, AA729004, AI620354, AW338633, AI799683, AW070901, AA640661, AA657544, AL038841, AA551030, AI078143, AW028376, T16147, AA468289, AI732682, AA196287, AA010265, AA654464, AC004922, AC003092, AL031118, AC002310, AC006088, AC005602, AC005003, AC004449, AC005520, AL049562, Z82246, AC005920, Z82182, AC003688, AC004674, AC004242, AC006001, AC005971, Z82203, Z99716, AC005924, AC005822, AB014532, AC008115, AL121653, AF196779, AC006441, AC005696, AL023807, AC009248, AL031295, AC004491, AL022318, AC005391, AL024498, L44140, AC007066, AC007934, AC007229, AC003037, AL031848, AC005598, AC007201, AC007314, Z98044, AC005747, AC005519, AC012627, AL035681, AL035587, AC002400, AC006160, AL139054, AL031577,

HLTCL66	2807	417344	1 - 404	15 - 418	AC005753, AL023880, Z97056, AF111169, AL022316, AC004686, AL132992, AC004765, AL133448, AF088219, AC007376, AC005261, AR036572, U91328, AC005015, AC005253, AC004025, AC004019, AC000046, AC000038, AC005744, AL117329, AL109827, AC004913, AC005618, AF111168, AL031670, AC005785, AC005200, AC004816, AP000689, AC004832, AL022320, AL035411, Z83820, AC005368, AP000553, AC005280, AC009516, Z98048, AL080243, AP000514, AP000510, AC004263, AC005049, AC004262, AC000353, AF107885, AC000025, AC003029, AC000041, AC005911, AL049650, AL034451, AC004477, AL031575, AC003046, AC003102, AL049569, AC006511, AL031591, AB023048, AP000512, AC004668, AL136363, AB019438, AC06261, AL049761, AC002477, AC005225, AC009464, AC002456, L78810, U18270, AL023879, AC002991, AC006101, AC007537, Z98749, AL008721, AF001549, AC005695, Z74619, AC006959, Z82198, AL049869, AP000704, AL049743, AC005365, AC000048, AF038458, AC005011, AL133245, AC007686, AL031681, AF011889, U91318, L34079, AC004812, AL049781, AC004067, AC007308, AL009179, AC006130, AP000065, AC006121, AL080317, AC007421, AC007207, AP000210, AP000132, Z96074, AL021154, AL020997, AC005914, Z86090, AP000555, AL008582, AL023798, AC006251, AJ243213, AC002553, AL122020, AC004893, AC004682, AC005531, U91323, AB003151, U91327, AL022067, AF001550, AC005013, AL109956, AC004876, AC002418, AL078638, AL034420, AC005755, Z95114, AC006513, AC005527, AC004156, AF023456, AL031005, AC002369, AL110502, AC006162, AC007051, AF195658, AC004386, AC002546, AC005099, Z69374, AP000557, AC003982, AC004783, AC03086, AF109076, AL031666, AL031177, AC004051, AC007216, AC006538, AC005089, and AC005358.
HLTCM12	2808	888630	1 - 346	15 - 360	AA845560.
HLTCQ51	2809	725845	1 - 660	15 - 674	AA361368, and AA361192.
HLTCR55	2810	839556	1 - 576	15 - 590	H90265, N92020, T85748, AA487719, and H56560.
HLTCT75	2811	766511	1 - 337	15 - 351	W32922, and AI814997.
HLTCU58	2812	625309	1 - 352	15 - 366	AW451945, AA926743, AA361764, AI082182, AI653128, AI873281, AA608839, AI610135, AW367467, and AB033038.
HLTCV43	2813	715525	1 - 355	15 - 369	
HLTCV57	2814	535289	1 - 185	15 - 199	
HLTCV63	2815	574712	1 - 189	15 - 203	
HLTC225	2816	574704	1 - 110	15 - 124	AW134673.
HLTC237	2817	574705	1 - 413	15 - 427	
HLTDC32	2818	574699	1 - 274	15 - 288	
HLTDC80	2819	574698	1 - 353	15 - 367	

HLTDD44	2820	522698	1 - 146	15 - 160	AA362014, and AF053630.
HLTDD62	2821	571328	1 - 263	15 - 277	AL034343.
HLTDE78	2822	856603	1 - 293	15 - 307	AL096816.
HLTDK54	2823	574714	1 - 302	15 - 316	AA884484, and AC007068.
HLTDK64	2824	772378	1 - 325	15 - 339	AA361503, and Z96050.
HLTDL71	2825	508932	1 - 242	15 - 256	
HLTDT14	2826	973100	1 - 296	15 - 310	
HLTDY57	2827	934619	1 - 535	15 - 549	AF118078.
HLTEA13	2828	971722	1 - 669	15 - 683	
HLTEE40	2829	711453	1 - 221	15 - 235	AI904944, AA326452, AA135988, AA857812, AI799421, AA878407, N70449, AA831801, AI798041, AA714073, AA320105, AI419337, AI361090, AA302978, N23919, H93152, AA371410, C14330, AA577824, AA626829, AI421950, N75708, AW089550, AA832016, D51877, H67064, AA279385, AI114557, AA017690, AA326904, AW026305, AA719111, AA135811, C16358, AI914713, H43183, AA296604, AI270120, AW019964, AI886736, AI908508, AA092704, AW381198, AW381196, H79586, AA586433, H71738, AI054244, AI671077, AI431513, AA021139, AA381762, AA828867, R83068, AI609972, AL040430, AI580707, AW079809, AI583344, AI908525, AA828047, AI865776, AA558404, AA553570, AA338623, AI791718, AA862029, AA610255, AI192463, AW163763, AA364420, AA367788, AW089783, AA569597, AL041375, AA077776, AI797998, AA102737, AA324088, AI283938, AI185394, AI819391, AW390309, AW247389, AA854460, AI279417, AW265279, AA728861, AI538818, AA745543, AI889579, AL120976, AA385775, T60699, AA326330, AW265276, AA553900, AA565319, AA228778, AA152253, AI423018, AA834799, AI679413, AA487569, AI349130, AA608520, AA493789, AI445373, R67701, AI889705, T93109, AA937809, AA136477, AW002831, AA730488, AW008184, AA525331, AA502098, AI609574, AW340937, AA847413, AW300749, AA745628, AA365980, AA658934, AA378474, AA805573, AA384911, AI696550, H91704, AI310670, AA074351, R93854, AI927393, AA593471, AA493447, AL118925, AI750125, U85195, AB000658, AF047825, AC005086, AP000350, AF038458, I34294, AL023807, AC002400, AC006011, AC005971, AC005484, AC006511, AL022721, AL031427, AC009247, Z98047, AC006344, AC004883, Z83845, AC007384, AP000704, Z97181, AC004707, AL022320, AC006449, AC004882, AL049843, AC002425, AC004905, AC018633, Z73359, AC006996, AC005215, AL121653, AL034420, AC004263, Z93930, AL133382, AP000008, AL109952, AC004966, AP000504, AL031589, AL139054, AL049548, AC004881, D87675, AC002395, Z82206, AC007774, AL031230, AC005529, AF111168, AL049694, AL035072, AC006160, AC005081, AL049845, AC005630, AC004797, AL050350, AC005015, Y15994, AL008635, AC007676, Z98051, Z82976, AC004884, AL035460, AC007055, AC005602, L47234, AL096703, AC005306, AC006132, AC007637, AL049776, AP000030, AC008928, AC005924, AL121603, AF129756, AL133246, AC007160, AC002316, AC005476, AL109827, AC000075, AC004471,

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HLTEF24	2830	871203	1 - 135	15 - 149	AA826368, and L78833.
HLTEI47	2831	720474	1 - 588	15 - 602	
HLTEI53	2832	723405	1 - 306	15 - 320	
HLTEK94	2833	793033	1 - 348	15 - 362	R63716, AA160481, AI191227, H40386, H48636, AA199616, R97634, AA226153, AA503119, T10560, AI266133, N67592, T92445, AI923480, AA701121, AA665021, H58178, AA564859, AI049707, AA569187, AI923140, AI340500, AA084337, AW157326, AI281754, AA586441, AA713534, N58586, AA831388, T40617, AW340821, AA650434, AA713762, AA713933, AI400213, AC005514, AC005971, AC003051, Z86090, AC006965, AC006241, AC002115, AL031447, AC004990, AC007327, AP000297, D49685, Z95152, AC005940, AC004474, AL023579, Z69921, L48473, Z98050, AL031714, AB029900, AL034401, Z49154, Z82184, AC000094, AC003968, AC000081, AL109854, AL023879, AL023694, Z83819, AC004041, AC005600, AC005250, AF015416, AC003099, AC012599, Z99297, AC005006, D87009, AC004748, AL034402, AC006254, AP000884, AC003998, AC005844, AC005969, AI222574, AC006318, AL035413, AC005245, AC007091, AC002460, AC004106, Z99716, AC007016, AC006285, AC006211, AC016025, AP000044, AP000112, Z60589, AD001502, AL021391, AL050031, AC004647, AC004076, AC003002, AL049552, AL109939, AC004638, AC007243,

HLTEL11	2834	967529	1 - 319	15 - 333	AC004400, Z69917, AB020858, AF130343, L42240, AC006026, D26067, L05367, AF151679, AP000294, D87015, Z81000, AF037338, AC005853, Z70688, AC000082, AC004257, AP001063, AL080238, AL049741, and AL022575.
HLTEL25	2835	508607	1 - 231	15 - 245	AA360683.
HLTEL59	2836	851867	1 - 687	15 - 701	AA664604, T77882, AI271985, AW084100, AA857812, AI421950, AC002997, AL022316, AC003037, AL049759, AL049776, AL049829, AC006538, Z98884, AF002223, AC006121, AC007193, AC007055, AC004878, AC005324, AC005512, AF196969, AC002544, AC004020, AC007182, AC005071, AC005971, AL133245, AC004148, U91326, AC007227, AC006449, AC005015, AC002316, AC005233, AL133371, D87675, AL080245, AL049872, AC005531, AC006064, Z68165, AC007066, Z83847, AC005913, AF030876, AC005399, AC003101, AC004491, AC006241, AC002310, AP000141, AC003029, AC007707, AC007216, AC005736, AC006111, AC009516, Z85986, AL096791, AF205588, AC005363, Z86090, AL050338, AL022320, AC005529, AC005057, AC016027, AC006013, AC005041, AF001552, AC004918, AC007308, AL031281, AC016830, AP000689, AC007075, AC005231, U91321, AL117337, AL049780, AL031311, AC004832, AC005237, AL008718, AB003151, AC003684, AC007226, AF111167, AC002425, AC007546, AP000704, AC006464, AC002553, AL023575, AL022311, AC007686, AC007151, AC005291, AP000505, AC004821, AC003006, AC002470, AC004084, AL022238, AL031283, AC004859, AL109801, AL035422, AC005300, AF207550, AC002492, AC006071, AL033521, AC006023, AC004858, Z99716, AC005300, AF129756, AL035587, AL135744, AL034402, AL080243, Z98752, Y14768, AL139054, AC005667, AP000557, AC000159, AC005261, AP000113, AC007676, AL096761, AC004675, AC005562, AF165926, L78833, Z97053, U07563, AP000512, AC007041, AC004686, AC002301, AP000130, AC004883, AC007993, D28126, AL033392, AC005740, AL008582, AC005874, AF134471, Z83838, AC004209, AC005102, AP000208, AC004895, AF088219, AL021546, AC004587, Z97054, AL121825, AC004887, AL049569, AC005004, AC004656, AC004967, AC005940, AC002039, Z84466, AC002477, AL031005, AP000556, AC002059, Z95114, AL021920, AL021578, AC005696, AC006014, AL121658, D86992, AC006141, and AP000045.
HLTEO88	2837	955228	1 - 321	15 - 335	AI218868, Z45382, AI273004, AA018678, and AA814210.
HLTES50	2838	958906	1 - 299	15 - 313	AC006323.
HLTES59	2839	739412	1 - 260	15 - 274	
HLTEX10	2840	968060	1 - 289	15 - 303	
HLTEX38	2841	573353	1 - 287	15 - 301	AA361279.
HLTEZ24	2842	572779	1 - 456	15 - 470	
HLTEZ33	2843	574634	1 - 344	15 - 358	
HLTFA05	2844	932221	1 - 539	15 - 553	

HLTFA34	2845	1 - 202	15 - 216	AI431786.
HLTGF04	2846	1 - 1580	15 - 1594	AA813267, AW341552, AA878516, AA612649, AI935832, H17239, AA213623, AA720884, AI621368, Z44756, N74953, T75192, and R37793.
HLTGF55	2847	1 - 424	15 - 438	AA705418, AA682828, N64118, AI940034, AA987277, AA340035, AA484366, AI982809, R60108, T90092, AA918258, AW337710, AA643794, AI348199, H02927, T63790, AC005538, AP000512, AC002394, AC007151, AL021707, AF207550, AP000295, AL008718, Z85987, AC008044, AL035458, AP000044, AP000112, AB023051, AC004448, AC002563, AL133485, AC007216, AC005071, AC007226, AC005291, AC005291, AC004967, AC007425, AC005529, AL022476, AC007845, U08988, AC003666, AC007057, AL031681, AL022721, AL035090, AC006544, AC004779, AC004216, AL031390, AC008008, AC005163, AL109984, AC005377, AC022517, AC002997, AL121825, AL132777, AC005921, and AC004228.
HLTGG25	2848	1 - 296	15 - 310	AC005037.
HLTGG61	2849	1 - 510	15 - 524	
HLTGM60	2850	1 - 456	15 - 470	
HLTGP51	2851	1 - 421	15 - 435	AC004757, AC005962, AC004821, AL031985, AC004491, AL133500, AC004149, AC004895, AC007637, AC004671, AC005768, AL021546, AC004131, AC003108, AC016027, AC016830, and AP001054.
HLTGP63	2852	1 - 415	15 - 429	H90456, AA284708, AA805701, AI380487, AA203607, AI810648, AI829784, AI765051,
HLTGS44	2853	1 - 440	15 - 454	AI126802, and AI367405.
HLTGV54	2854	1 - 393	15 - 407	AW205342, AA394225, AA398138, AI189026, AA283901, AI088021, AW196580, and AA504369.
HLTGV64	2855	1 - 399	15 - 413	AA992324.
HLTGV67	2856	1 - 417	15 - 431	
HLTGX26	2857	1 - 327	15 - 341	
HLTGY75	2858	1 - 338	15 - 352	AC004921.
HLTHC34	2859	1 - 411	15 - 425	AC008062.
HLTHH89	2860	1 - 439	15 - 453	
HLTHI11	2861	1 - 650	15 - 664	AI246061, AA324919, AI801563, AI054090, AA838192, AI539822, AA419225, N27874, AL048479, AI284543, AI254770, AI251944, AI251034, AI251203, AI251284, AI250552, AA557911, AI673038, AI292275, Z97630, AC007688, AC007283, AL022311, AL034553, AL109628, AB003151, AL109758, AC005837, AC004955, AC005844, AP000689, AC003689, AC004531, AC003010, AC005808, AL020997, AC005531, AL008730, AC007263, AP000116, Z93020, AF001551, AL118516, AC003108, AP000049, AC007226, AP000311, AC006115, AC007738, AC003663, AC006251, AC007051, AL049743, AC007934, AC002398, U95739, AC002301, AP000152, AC006449, AL109627, AC002091, AC002395, AC004234, U91321,

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HLTHJ35	2862	707245	1 - 529	15 - 543	H48673, AA830499, and AA769512.
HLTHJ68	2863	719927	1 - 282	15 - 296	
HLTHO15	2864	969356	1 - 241	15 - 255	T55452, T55533, T64583, T86962, R17130, R43223, R69530, R88169, W16432, AA001405, AA010287, AA010286, AA039982, AA040629, AA262779, AA262859, AA429842, AA429866, AA280051, AA470454, AA535802, AA583001, AA602082, AA602149, AA568998, AA577257, AA738040, AA769367, AA814611, AA815126, AA826473, AA827081, AA878242, AA928604, AA932452, AA976602, F18808, AA654132, AAA17049, AA417180, AA609614, AA724635, AA835419, AA838750, AA854117, AA854205, AA772546, AA868928, AA772706, AI002704, AI092675, AI092814, D19911, Z38531, Z42297, AA682392, AA699613, AI241962, AD249764, AI284418, AI368959, AI216755, AI399983, AI475899, AI566500, AI579914, AI125509, AI126523, AI128828, AI129502, AI143123, AI627758, AI168615, AI200776, AI620397, AI690783, AI701961, AI873590, AI805591, AI935907, AI951767, AW007590, AW009555, AI985824, AW024442, and AW082810.
HLTHO31	2865	697550	1 - 251	15 - 265	AL049610.
HLTHO46	2866	923482	1 - 291	15 - 305	AW173354, AF049559, AF049553, and AW386843.
HLTHS75	2867	965126	1 - 470	15 - 484	AA307492.
HLTHV83	2868	780482	1 - 824	15 - 838	
HLTIJ72	2869	968986	1 - 493	15 - 507	
HLYAA21	2870	671074	1 - 703	15 - 717	AA042852, AA044402, AI671077, AI801505, AA356376, AI828669, AA837771, AL042735, H54252, AA565232, AW272599, H43183, F31867, AA445908, AA904211, H53284, AA513884, AA662614, AI280266, AI355246, AA569715, AA552724, AW019964, AI246386, AI249688, AA374797, AA630245, AA584493, F35684, AI915081, AA058312, AW265688, AW302081, AI870453, AA493947, AA493789, AA586433, AL039309, AA284247, AA584484, W81372, W02749, AI612810, AA584800, AI580707, AI198718, AI923052, R93919, AI567391, AA811954, AI038304, AA728938, AI253987, AI282629, AI802804, AW051819, AL041352, AI754567, AI569100, AW192599, AA515351, AA558404, H65213, AI080307, AI061619, AA937809, AI609972, R86977, AA302982, AA558404, H65213, AI080307, AI061619, AA937809, AA678472, AA577790, AA665181, AA746911, AW403829, AI310464, Z98474, T62078, AW419389, AW303142, AW275432, AI587467, AL079734, AI912401, AA376520, AI190648, AA349937, T95676, AA659048, AL034420, AC004822, AC004760, AC005859, AF112441, AC005534, AC004651, AL078603, AL049570, AC005206, Z69922, AC007546, AC004167, AC005667,

HLYAA41	2871	909874	1 - 819	15 - 833	AL117344, Z49769, AC003690, AC002302, AC005291, AL021546, AL024498, AC002504, AC002128, AC007676, AC005256, AL121852, AL031315, B4294, AL034379, AC004494, U02052, AC007880, U02047, AC007566, AP000501, U95739, AF108459, AL008709, AC007993, AC002511, AC007312, AF130343, AC004033, AL031665, AC006011, AC002375, AC009044, AF196971, AC005057, AF053356, AC002550, AC005921, AC006061, AC002045, AC006479, AL110122, AP000193, AC008101, AL035072, AC008044, AP000050, AL109613, Z95114, AC004466, AL109983, AC005514, AC007193, AC008079, AL035410, U17576, AP000117, AC007136, AP000313, AF207550, AC004858, AC006132, X55448, U52112, Z99716, AC002390, AL021306, Z49235, Z82214, AL035415, AC005500, AC005277, AC003035, AC006062, AC002429, AC006449, AL049631, AL008707, AC004000, Z82190, AC002404, AL035400, AL035423, AL021920, AB018295, AL031311, AC002039, AC005902, M29929, AL020997, AC006125, AC003098, AC011331, AP001052, AF031078, AP000049, AP000116, AC000039, AC005193, AC005411, AC016831, AC004843, AL021937, AC004859, AL049712, AC005539, AC004743, AL049829, Z98742, AF030876, AC004999, AL022163, AC006057, AC005736, AC005740, AL031121, AC005746, AC005823, AL049557, AF066501, AL031293, AP000311, AC003967, AC000159, AL049834, AC004584, Z84813, AC004797, AC004073, AF109907, L44140, AP001063, AC006088, AL031732, AF030453, AC004099, AL109656, Z82248, Z94865, AC005088, AF107259, AP000239, AC007225, U10087, AC005081, AC005516, AC005726, M87918, AD000684, AL050318, AC008062, AC002107, AC006398, AL049795, AC006050, AC004475, AL031433, U96629, AL031848, AC004024, AF017104, Z86090, AL078638, AC009263, AC007731, AF075098, L31565, AL035495, AC003043, AC002496, AC005480, AL109963, AB003151, AP001053, AC002090, AL117352, AC011718, AL031594, AC008041, AC004223, AL031431, AF155238, AL022316, AF095901, U91318, AC005747, AC002106, AL009183, AL109801, AL050331, Z84469, AC005531, Y14768, AC006126, AC004695, AC004921, Z98052, AC002301, AC004817, AC005037, Z84466, Z82217, AL118503, AP000552, AC004224, AC005034, AC002369, AL135879, AL121790, AL050337, AC000115, L47234, AC004605, AC007773, AL133396, AC005335, and AC006515. AI074002, AW014573, AA326846, AI084046, AA070889, AW194509, H44725, AI241812, AI624543, W45039, AI273179, AI564245, AA903221, AI270448, AI923509, AI560536, AL045163, AI361701, AL039276, AI886440, AI476086, AI285732, AW085799, AW189802, A45787, E12888, AL122049, AL133607, AL133053, AL133049, AL133015, and AL133608.
HLYAA44	2872	964841	1 - 362	15 - 376	R02835.
HLYAB02	2873	920407	1 - 333	15 - 347	U81830, and AC007450.
HLYAB38	2874	861161	1 - 444	15 - 458	
HLYAC38	2875	668989	1 - 259	15 - 273	AI243319, AI288451, AI521658, AW301143, AW444808, AI417213, AI056464, AI827213, AI925715, AI085752, AI913241, AA693938, AI869312, AI122654, AA937953, AI922008,

Clone	ID	No.	Range 1	Range 2	Accession Numbers
HLYAO31	2884	698104	1 - 463	15 - 477	AC007114, AL049709, AC004891, AL049712, AC006531, AL049830, AL049759, AC006139, U73167, U90094, AC007860, AC005385, AC004601, AL022721, AC006064, U91318, AC005874, AF134471, U63721, AF165124, AC007868, AC005220, AC006530, AC008040, AC002400, AL049570, Y14768, AR036572, Z84467, U91328, AP000131, AP000209, AC005231, AF111168, X14448, AC004938, AC007124, AC002126, AL050324, AJ246003, AC004905, AC000086, AC005764, AL109956, AC006004, AC005839, AC004817, AC005803, AC002425, AL049849, AC005971, AC005856, AL049780, AC007216, AC004647, AL109627, AC007880, AF129756, AC004858, U52111, AC002565, AL078584, AC007372, AL049837, AC005940, AL022163, AF111167, AL049553, AL080243, AC007386, AC004462, AL117258, L77570, AC004686, AP000555, AC007327, AL021917, AC003037, AC002369, AC007308, AC004815, AL117344, AL023284, AC005697, AJ003147, AC005670, AC005625, U96629, AC004914, AC004975, AL035249, AL031657, AL034417, AC003104, AC007429, AC005363, U91323, and AC005082.
HLYAO67	2885	924042	1 - 699	15 - 713	Z26982.
HLYAP10	2886	964748	1 - 418	15 - 432	AI143897, AA028192, AW294571, and AC003963.
HLYAP26	2887	681892	1 - 462	15 - 476	
HLYAQ80	2888	868396	1 - 615	15 - 629	AI049909, AI828669, AA167506, AI678676, AC005049, AL049830, Z99127, AL139054, AC007308, AC003982, AC005331, AC005764, AC007565, AC006581, AL021578, AC006064, AC007637, AF047825, AL031431, AC006950, AC016027, Z92542, AC016830, AC004024, AC005015, AF111167, AC002565, AC005391, AL117354, AC009516, AC004560, AC004000, AF038458, AC005138, U91321, AC004587, AC002984, AC005778, AC005081, and AF165926.
HLYAT56	2889	935552	1 - 517	15 - 531	
HLYAU29	2890	576596	1 - 502	15 - 516	AI718516, AI763431, AI027846, AI631498, AI809845, AI971984, H87213, AI365352, AI383486, D25764, H87214, AI762280, and AC002112.
HLYAV80	2891	689969	1 - 691	15 - 705	
HLYAW35	2892	780987	1 - 373	15 - 387	AW449907, AW387328, AW387332, AW387333, AW387341, AC005332, and AC005562.
HLYAX61	2893	707248	1 - 332	15 - 346	AC002480.
HLYAX85	2894	575868	1 - 379	15 - 393	AI760371, AL117470, and AB023143.
HLYAY62	2895	825513	1 - 356	15 - 370	
HLYAY65	2896	575863	1 - 309	15 - 323	AI216626, AI807710, and AL031393.
HLYBA01	2897	916635	1 - 464	15 - 478	AI370263, AI472733, R98652, T52997, AC004882, AC004495, AL024495, AC004216, AP000260, AC005291, and Z84467.
HLYBA42	2898	871648	1 - 753	15 - 767	T47732.
HLYBA72	2899	717644	1 - 462	15 - 476	
HLYBA85	2900	575878	1 - 462	15 - 476	

HLYBA96	2901	575834	1 - 470	15 - 484	
HLYBB50	2902	708624	1 - 486	15 - 500	
HLYBB65	2903	866883	1 - 645	15 - 659	AI820992, AW105729, AA744993, AI003988, AA635433, AA687542, AI049630, AA015948, AL572680, AI358513, AA862029, AI283938, AI445699, H86399, AA515924, AI302350, H27788, AA302978, AA526658, H47736, AA526659, AI282479, AI061313, AA364082, AI049504, AW079667, AI591134, AA244181, AI678476, AA715351, AA728861, AI254779, AI590404, AI123214, AI702049, N55076, AI805699, AA862312, F17537, AA573000, AI751191, F23221, AA297789, AA846014, AA218684, AW265468, AA084320, AI143653, AW129188, AI049680, AA018258, AA650528, AL047349, R93233, AI446336, F29968, AA300049, AI002863, AA636077, AI268818, AL138262, AI79421, AI032411, H91062, AI679759, AA807704, H91704, AA278496, AW192930, F08866, AI520925, N78600, F36200, AA832124, AW192518, AA604149, AA668421, AA768179, AL121039, AI150934, AA147521, H91358, AI310343, AA342238, AI619994, AI174703, F31811, AA130696, AA342626, AW243945, AW157128, H91672, AW410844, AI040051, AA598740, AW148821, H59856, AA769481, AI065043, AI254267, AA010265, AC005632, AF049895, AF001549, AC005031, AP000555, AF069291, AC006538, AF111168, AE000658, AL031295, AF088219, U80017, AC000353, AC004083, AC001643, AL049835, AC005288, L47229, AC005971, AC004033, AC005500, AL096701, AL035681, U02057, AL109956, AC011456, L47227, AC011456, AC005682, AC005913, AL109798, Z980051, AC004663, AL022316, AP000501, AL049757, AC005730, AC002991, L47222, AC004151, AP000469, AL080317, AC004897, AC005409, AF064861, AC005231, AC005157, AC004882, AC005856, AC005529, AC006162, AL079295, AL080243, AC008018, AC004216, AL133289, AC006536, AC005828, AC003688, AL035587, AC006360, U85195, AL031347, AP000503, AR036572, U91328, AL035420, AC009516, AC007993, AC004985, Z82172, AC005722, AC005081, AC004966, X89398, AC005696, AC003665, AL049776, AC005332, AC007055, AC004253, AF045555, AC004000, AL021578, Z74739, AC000159, AC004056, Z96074, AP000010, AC005214, AC005244, AL035445, AL139054, Z97053, Z98941, AC005531, AP000030, AL023799, AL031659, AF053356, AL022721, AL080242, AC005003, AC005972, AL121603, AC005209, AC005215, AC004851, AP000152, AC005373, AL031685, AL023801, AC005924, AC004738, AL109627, AP000557, AL021155, AC005726, AC006277, AP000552, AC005365, M63796, AC006271, AL035461, AP000065, AC007766, AC004132, AL096703, AC003098, AF134726, E15652, AC005527, AL050321, AL121754, AF112441, AP000153, AC005188, Z82206, AC006385, L78810, AC007899, AC007746, AC003007, AP000011, AC001551, AC005484, E15648, AL132712, AL049843, AF038458, AP000556, AC008055, AC007919, AL121825, AL031007, AC007242, AB023048, AL022476, AC005368, AC006344, AF165926, AC006014, AC003043, AF019369, AC002544, AF109907, AC007845, AC005213, AB020866, AC004230, AC007637, AC005952, AC005057, AL049766, AC006064, AL049694, AL109853, AC006333, AC004686, AC005488, AF111169, Z93017, AL050140, AC005859,

					AC007172, Z95327, AC002477, U07561, AL031117, AL022330, Z93023, Z97056, AF001550, AC007051, AL033521, AL021808, AC007395, AC005701, AC006449, AC005089, AC008101, AC007731, AC006130, AC005071, AL022323, AL021707, M37549, AC005261, AL033392, AC004067, AL008720, AC005837, AC016025, AL035249, A84742, AL049743, AC005412, AL022723, AP000251, AL021453, E15653, AC005695, Z93241, X54156, U94788, AC002470, AC007363, AC005755, AP000512, AC002418, AJ011930, AC007151, AB001523, AF126403, AL121658, AC000039, AL050350, AC007421, AC003689, AC004150, Z98744, AC005377, and Z84488.
HLYBD46	2904	575865	1 - 358	15 - 372	AW089101, AA303007, AI290405, T49633, AA864603, AI382825, AW179306, AW179305, AW380254, AI042311, F17774, AA478355, AI468899, AA679936, AI732120, AI469968, AA680243, AA329995, AA829490, AA478297, AL119649, AC004894, AC004000, L78810, AL009181, AC005291, U51244, AC006160, AL031311, AL049759, AC009542, AC004492, AC004531, AL034379, AP000228, AL021453, AP000140, AP000088, AC004063, AF147304, AC005800, AC005881, AC005740, AC002287, Z84474, Z83846, AP000065, AC004087, Z82206, AC002206, AB014078, AP000514, Z97989, AC005235, U37355, U37357, U37452, L07900, U73638, AC005783, AC006077, AC005377, AC004999, Z83826, AL031650, AC004838, AC008033, AL021978, AC007664, X95586, AF065396, AF129077, AC006388, AF038458, AL031282, AL031256, AC004167, AC003957, AL049692, AL020997, AC007263, AC004882, AC009330, U82828, AC005274, AC007308, AF053356, AC005529, AB028964, AC004644, AC006473, AL080241, AL049757, AC004813, AL049745, Z98941, AL023805, AL133241, AL031228, AC006111, AL009183, AL109984, AL008729, AL117338, AC004004, AL022323, AC005833, AC005089, AC005041, AJ007973, AC007192, AP000223, AP001051, AL031905, AJ006997, AC005519, AC003071, AC004687, AC004491, AC006121, AL008629, Z97352, AC000087, AC005206, AC005667, AC008122, AC004983, AL024498, AC007226, AC005081, and U95090.
HLYBF47	2905	706517	1 - 417	15 - 431	AA873012, and AA470597.
HLYBF75	2906	828077	1 - 527	15 - 541	AA393103.
HLYBG18	2907	575872	1 - 465	15 - 479	
HLYBH08	2908	856445	1 - 467	15 - 481	AI076697, and AI076255.
HLYBH56	2909	733472	1 - 471	15 - 485	
HLYBH91	2910	576793	1 - 464	15 - 478	H85616, H86301, H86264, AW440976, AW236342, AB12149, AI358501, AA598997, AA593060, AW072587, AW419262, AI291124, AI291268, AL537030, N27353, AA084070, AW148792, AW340922, AI824562, AA443390, AW338869, AI648558, AI003734, AA347927, AA632868, AI499094, AA059235, AL138455, AA664535, AA323749, AW193609, AII33262, AI282832, AW380074, H40410, AI625570, AA984263, H86305, AA136004, AI884487, T47739, AI676218, AA347930, H42075, AA243959, AI653886, AI339440, AA837740, AL133862, AA610786, AI192631, AI628288, R47245, AA846935, AA346454, H02631, H21449, AL135405, AA437402,

					Accession numbers
HLYBI44	2911	728035	1 - 253	15 - 267	AW238768, AW085740, AL137954, AI610607, AI144330, AI572560, H64560, AA325699, AI469624, AL041733, Z94865, AC006350, AF001549, AP000508, AC004947, AL033521, Z92540, D84394, AL109984, AC005968, AC004210, AC004982, AC004098, AC007565, AL121653, AL031009, AC007344, AC005746, AC004637, AC000092, AC005317, AL023575, AC006121, AF111169, AP001049, AC005031, AL109798, AP001050, U80017, U91328, Z70281, AL023882, AC004205, AC002364, AC006012, X66401, AP000460, AC006480, Z70288, AF108083, AC003014, AB020867, AC007390, AC002994, AC005486, AC004035, AC005362, AC002350, AC008064, AC004702, AL021938, AF003627, AP000142, AP000090, AL031848, AR036572, AC006128, AL049845, AC006965, AL117352, Z82198, AC005531, AC005379, U89335, U89336, AC002045, AC005081, AL109656, AL031258, AP000358, AC004259, AC004600, AL031664, AC006195, AL035659, AP000343, AC004743, AC007324, AC003663, AC005288, AP001046, AC008079, AC009336, AC008124, AL049869, AC002288, AC005803, AC002082, AC005003, AL035106, AL022316, AC007308, AC006211, AC005755, Z92541, AB009666, Z98257, AC003965, AC004496, AF007544, AP000230, AP000144, Z86061, AL031177, AL109967, AC007214, AC006241, AC006111, AC007458, U47924, AL049562, AF227509, AL031662, AC004851, Z93021, AC006251, AL080285, AF227510, AC004999, AL031296, Z82205, AC005670, AP000556, AP000552, AL110505, AP000517, AC004253, AC004775, AF003626, AL022397, AC007026, AC005208, AC003695, AC004562, AC004595, AC004963, AC005291, AF060568, U02048, AC006597, AC003695, AC005180, AC002091, AP000152, AC005231, AB023054, Z84490, AC005175, AP000252, AL035494, AF045555, AL022100, AP000212, AL035458, Z97054, AC007666, AL049873, AL031584, AC005324, AC005874, AF134471, AL096711, AC006030, AC004797, AC005944, AL008728, AL117351, AL022313, AC005837, AC007687, AL049696, AC005229, AP001068, AP000080, AC005694, U49740, Z69890, AC005550, AC004400, AC005565, AC006275, Z81308, AL031602, AC006456, AL021453, AL023799, AL049712, AL031650, AL117344, AC006354, AL049712, AC007262, AC007535, AC007228, AC004972, AC004972, AC004987, AL031666, AL021392, AC000003, AC016027, AC005815, AC007537, AC007182, AC016830, AC005873, AC004605, Z98750, and U51244.
HLYBJ10	2912	964752	1 - 464	15 - 478	AA830761.
HLYBJ42	2913	713845	1 - 559	15 - 573	W87342, W87343, and AI797550.
HLYBL92	2914	856419	1 - 1064	15 - 1078	N72584, F31792, AI950359, and Z97055.
HLYBM35	2915	625408	1 - 461	15 - 475	AC007204.
HLYBM75	2916	757084	1 - 387	15 - 401	
HLYBN94	2917	670500	1 - 380	15 - 394	
HLYBO53	2918	721377	1 - 416	15 - 430	AC004056, AC007214, and AC007458.
HLYBR03	2919	924515	1 - 428	15 - 442	AC004227.

HLYBR41	2920	712389	1 - 631	15 - 645	
HLYBR83	2921	750318	1 - 481	15 - 495	AI769511, AI692550, AW384109, AW384104, AW384108, AW384074, AW384071, AW384068, AW384073, AW384075, ZA2260, AA768582, AI681360, and AL022067.
HLYBS12	2922	970795	1 - 651	15 - 665	D78885.
HLYBT19	2923	668744	1 - 432	15 - 446	W87923.
HLYBT64	2924	527687	1 - 433	15 - 447	AI799856, and AA447275.
HLYBT69	2925	678175	1 - 452	15 - 466	
HLYBT84	2926	575828	1 - 45	15 - 59	
HLYBU28	2927	914702	1 - 418	15 - 432	H66883, W03665, and AC007068.
HLYBU52	2928	727213	1 - 463	15 - 477	
HLYBV42	2929	713837	1 - 298	15 - 312	AI094626, AW204786, AI935606, AW246712, AA336176, H92959, AI433978, AW194509, AL039276, AL045163, AI635531, AL045620, AL039421, AI923046, AI289992, and AW082113.
HLYBW12	2930	970796	1 - 423	15 - 437	
HLYBW35	2931	812692	1 - 634	15 - 648	R98218, AA570441, AI636734, AA324059, AW245354, AI446259, AA324559, AA720582, AA326603, AI358928, AA663074, AW162750, AA654482, T05834, AI929796, AL039930, AA593471, AA158549, H65679, N25304, AW078909, H94979, AW088557, AA457504, AA485343, AI049709, AI732720, AI734119, AW238712, AA364082, AI473995, AA484191, AA825827, AI064786, T08258, AW192373, AC002563, Z83826, U91323, AC004796, AC005726, AC005585, AC004832, AL031767, AC005057, AL035422, AL031279, AL021578, U78027, AL035420, AC004905, AP000355, AC003684, AF196779, AC007899, AF196972, AL021154, AC002551, AL049776, AC004821, AC005274, AC004953, AC007685, AC005484, AC007421, AL078581, AC005796, AC005562, Z93017, AC007050, U91318, AC007386, AC005940, AC003692, AJ003147, AP000356, AP000555, AC006538, AC004491, Z85996, AF053356, AL049694, AL050350, L11910, AC003043, AC004491, AL008718, AC006530, AC008064, AC007055, AL035413, AC005529, AC005088, AC004983, AL049795, AL031774, AC010170, AC002425, AC005558, AC007011, AP000967, AC007388, AC005070, AC005696, AC002312, AC005900, AL050318, AL049709, AC002470, AL109798, AL031680, AC006271, AL050307, U91321, AP000359, AL031295, Z94056, AP000128, AP000206, AP000313, AP000501, AC007225, AL050341, AC004383, AP000104, AC008116, AL135744, AF129756, AC007546, AP000050, AL021155, AL132987, AP000466, AC006427, AP000113, AP000045, AC005667, AP000117, Z99716, AC005399, AP000245, AL022165, U96629, AC006312, AL133163, AP000689, AC005206, AC004526, AF200465, AL022165, U96629, AC006312, AL133163, AC009509, AC005531, AC005924, AC004477, AL049576, AC005180, AF107885, AL132642, AC007216, Z85986, AC005520, AC005839, AP000700, AC005971, Z97054, AL049843, AC003663, AL031447, AC005921, AC002369, AC007676, AF030453, AC071114, AL133312, AC006014, AC007695, AF104455, AC004985, AL031985, AC002525, AC008044, AC006101, AC002375, AC006285, Z92844, AC006211, AF017104, AC002091, AP000557, AC005225, AC007308,

HLYBX77	2932	721086	1 - 335	15 - 349	AL023575, AL109758, AC003957, AC007537, AC007542, AL022336, AC005046, AC006531, AL133244, U95738, Z95114, AP000509, Z84466, AC006126, AL034420, AC002128, AC004823, AL031282, AC002037, AC005488, AL096791, AP000704, AL139054, AC002996, AL022313, U85195, AC004686, AL121603, AC003982, AC005619, AL031390, AC020663, AC006111, AC003072, Z93023, Z83844, AC002039, AC011331, Z83838, AE000658, AC004882, AC005899, AC008079, U95739, AC004381, AL049569, AL035682, AC007151, AP000210, AP000132, AC002477, AP000694, AC002395, AC004531, AL031284, and AC004675.
HLYBX84	2933	754842	1 - 568	15 - 582	
HLYBZ17	2934	577479	1 - 373	15 - 387	AW130285, AI985694, AI979259, AI982610, AL022067, U08185, and AF084199.
HLYBZ23	2935	856430	1 - 398	15 - 412	
HLYB260	2936	682675	1 - 264	15 - 278	AC006064.
HLYBZ86	2937	856436	1 - 574	15 - 588	AL120025, AA432256, AI167405, R50986, AI768683, and AI802893.
HLYCA76	2938	770107	1 - 384	15 - 398	D30975, and AC005180.
HLYCA77	2939	677758	1 - 788	15 - 802	AI510842.
HLYCC39	2940	710843	1 - 564	15 - 578	H62775, H62835, AA397821, M77858, AL038842, AAS02532, AP000511, AL020995, AE000658, AL050318, AL109758, AB023050, AC007225, AF109907, AC009501, AC004211, AJ010770, AP000512, Z84486, AC002310, AC005585, AC003029, AC004491, AC004832, AL031255, AL031848, AC006285, AL049780, AC000353, AC006312, AL049569, AL033524, AC005484, AC007314, AB001523, AF165926, AC006071, AC005081, AC006011, AC002059, AC004223, AC002126, AL121653, AC007686, AC006942, AC005911, AC002312, AC005846, AP000689, L47334, AL080242, AL035422, AC006930, Z97056, AC005046, AL009181, AC002300, AB003151, AC004049, AC005527, AC008498, AL009172, AC006251, AL031427, AL031311, AC005907, AC005225, AC007690, AP000691, AC004234, AC004883, AC007546, AC005529, AC005755, AL133353, AC005157, AC005520, AC002369, AC002316, AC005015, AC007055, AP000299, AL133246, AL049697, AC004985, AL021391, AC007899, AC005261, AL035588, AC002115, AP000553, AC009516, AF053356, AC006271, AC005231, AC004801, AC004778, AC004013, AC006088, Z93241, AC004542, AL139054, AC005971, AC005775, AC002314, AL022326, AL049709, AL049839, AC007540, AJ011930, AL049835, AC006077, AL133245, AC006211, AL133448, AC000404, AL050341, AC000025, AP000048, AL133163, AC005619, AC004228, and AL096766.
HLYCC65	2941	932727	1 - 493	15 - 507	AA171788, AW118642, AB029006, AJ246003, and AL121658.
HLYCF12	2942	908532	1 - 361	15 - 375	AI139999.
HLYCF46	2943	718930	1 - 526	15 - 540	
HLYCF70	2944	741417	1 - 399	15 - 413	
HLYCH10	2945	964354	1 - 370	15 - 384	

HLYCH15	2946	964840	1 - 363	15 - 377	R02835.
HLYCM68	2947	658540	1 - 432	15 - 446	AF070718.
HLYCM88	2948	732392	1 - 380	15 - 394	AA230096, and AA530904.
HLYCN75	2949	761510	1 - 556	15 - 570	
HLYCO31	2950	697787	1 - 312	15 - 326	AI370523, N23255, AA074026, N27657, R66922, AW085624, AA579437, AI114828, AA382130, AA190418, H64735, AA491864, AA488846, AI350460, AI765684, T24020, AI092694, AA405463, AI375472, AA443663, AA577770, AA174138, AI241173, M77904, AA338281, AA465689, N21546, AI127067, AI916406, AW103010, AA584123, AA436155, AA436281, AI587537, AA812684, AA583390, AI811345, AA906657, AI065029, AA715389, AI439045, AI278256, R70326, H75272, N53132, AA910215, AI052493, AA736485, AA461430, AA805014, AA205743, AL048023, T68597, N25819, AL031774, AL022171, AL133485, Z84484, AL022067, AC004021, AL049738, Z83855, AC005844, AL022312, AC004000, AC007676, Z93017, AC004583, M63420, AC005354, AC004264, AL035410, AC005088, AC005562, AC004231, Z84489, AL035413, AC000353, AL035420, AL137457, AC004861, AL021878, U73479, AC004560, AF107045, AC005387, AL031255, AP000068, AL031848, AC005544, AC007327, AC007842, AC006241, AC004223, AC004167, AL135744, U62293, U63721, AC005057, U46120, AC005253, Z82097, AL008635, AL009031, AC002326, AC004770, AC006017, AC004797, AP000502, AC005393, Z95329, AC005412, AP000501, AF196970, AC004382, AF141308, U93037, AC002116, AC007201, AC000086, X55448, AC006030, AC002369, AP000008, AC005049, AC006088, AP000704, AC005833, AC004585, AL031985, AL034419, AL034549, AL022316, AC002454, AC005988, AL022165, L11910, AC009263, L44140, Z49258, AP000350, AL118509, AP000510, Z84466, Z97054, AC004458, AL031681, AC004106, AP000564, L05367, AC004132, AC006084, AL109984, AC002477, Z98044, AC005225, U52112, AC005920, AL121652, AC005529, AP001053, AC006312, AD008813, AC002420, AF045555, AC004876, AL031056, AC005081, Y10196, AC006043, AL035079, Z95116, AL133304, AL049745, Z49250, AF053356, and AL121655.
HLYCO66	2951	785990	1 - 295	15 - 309	AA918361, AI214209, AI820877, AI733217, AI346354, H65493, and AL031666.
HLYCO68	2952	729293	1 - 485	15 - 499	AW292970, AC004645, and AC006111.
HLYCP66	2953	706435	1 - 651	15 - 665	AA251713, AF080576, AA281037, T49826, T49825, and AC007041.
HLYCQ53	2954	728046	1 - 680	15 - 694	AL022098.
HLYCQ68	2955	752887	1 - 355	15 - 369	AD288307, AI186282, AA523891, C75540, AL037127, AI193168, AW407585, AA112924, AA458534, AA515631, AI613465, AA911520, AA001471, Z99943, AL031681, AC002364, AC005952, AC005670, AL033538, AC016027, AC016830, AC004955, Z83840, AL031848, AC005803, and AL050327.
HLYCR47	2956	850147	1 - 824	15 - 838	AW236220, T92688, and AA341978.
HLYCS15	2957	660006	1 - 371	15 - 385	
HLYCV49	2958	718840	1 - 294	15 - 308	

HLYCW04	2959	615021	1 - 336	15 - 350	
HLYCW13	2960	656827	1 - 366	15 - 380	
HLYCW20	2961	669541	1 - 355	15 - 369	
HLYCW62	2962	855443	1 - 1140	15 - 1154	AA720682, AIB24562, F19258, AA654627, AI493615, AA503947, AL040913, AW340844, AA650244, AA077817, AA228329, AI679782, AI886176, AA729264, AA551509, AA342958, AI205126, AI357551, AI929531, AW103769, AW162049, AA610491, AW008317, AI053816, AI054246, AA743956, AI282336, AA904218, AL046898, AW301818, AI469172, AI307426, AA584082, AA745410, AL048616, AA515938, AW361583, F29989, AW071063, AA581342, AI802526, AI537955, AI446518, AI358229, AI807372, AI565245, AW406755, AI365988, AA340003, AW339687, AI635272, AI274692, AA228420, AI003172, AI922002, AI523897, AL041368, N25927, AA578154, AW157608, AL138242, AI214510, AD281808, AW104748, AW080134, AI281807, AA713815, W60516, AI111177, AI469878, AI446601, AI469624, AL138265, AA639250, AI282832, AW243960, AI633479, AI858451, AW029038, AI828710, AA394271, AA482711, C75026, AA503258, AA558857, AI471534, AI683577, AW236342, AI005388, N66026, AC004383, U62317, AF078904, AC004620, Z84721, AC003015, AC005206, AC005667, AC002375, Z15025, AF129756, AL109827, AL022328, AC004478, AC005778, AC004583, AC005099, AC006208, AC002395, Z99497, Z98747, AC001082, AC006057, AC020663, AC004890, AC004033, AL132826, AF037338, AL050341, AC007731, AC005500, AC004388, AC010722, AL008629, AC003035, AC010072, AC002310, AC004472, AC002073, AC005794, AL133448, AC009044, AF124730, AC004806, AC000118, AC000003, Z84480, AC004408, U70984, AF011889, L48472, AL031655, AL035690, AP000039, AC000085, AL031584, AC009946, AF015720, AC002543, AL080241, AC003982, AL021326, AC002378, AL023879, AC005257, AP000432, AC005746, AC005037, Z98754, AF064861, Y14768, AF047825, AP000495, AL109627, AC005838, AL021878, AC002350, AC005245, AC007686, AP000505, AJ229041, Z98744, AC005356, AL109622, AC002312, AC005086, U91327, AC005211, AJ006996, AC007292, AC008984, AC004964, AC004622, AB020869, AL1327712, AC005284, AC000004, Z95624, AL117354, AC005815, AL023694, Z97635, AC000025, AC007786, AF196971, AF165176, AL121846, AC002565, U89387, Z84572, AC005184, AC007376, AC004526, AP000656, AC005046, AF109907, AC002432, U07000, AC009069, AL034406, AC006965, AC005751, AC004638, AC004149, AC007221, Z69705, Z86061, Z76735, AC006207, AC007387, Z97876, AL023755, AL023050, AC005913, U07000, AC006241, AL031591, AC004540, AL096805, AL022395, AL033381, AL031427, AF042090, AC000052, AC007537, AL022163, AC003050, AL080276, AC004972, AC005940, AL031680, AL133494, Z73965, AC000392, AC005913, AF064857, AC004986, AL049776, AC004909, AP000561, AC004810, AC004596, AL031666, AC005071, AC004019, AC006213, AF064864, U75285, AC004592, AC006556, AL109967, AP000023, AC005194, AC005303, AL117340, AF128846, AF128847, AC004099, AF128848, AB026188, AL096769, AL078472, AL049873,

HLYCY30	2963	650859	1 - 364	15 - 378	AC005527, AF002991, AP000358, AC002984, AF045448, AC005159, and AP000359.
HLYCZ63	2964	744886	1 - 430	15 - 444	AI760159, and AL133353.
HLYDB85	2965	784253	1 - 343	15 - 357	AI792627, AI254439, AI581223, AW086361, AI349662, AI053903, AI862231, AI223748, AI792525, AW197508, AI348722, AI684349, AI053450, AI583532, AW182499, H65697, AI248494, W24698, AI140609, AI270092, AA767864, AA573242, AW264786, AA233643, AI214028, AI266177, H95865, H72049, AW079694, AJ011930, AC005233, AC005972, AC002428, AL031733, AC002990, U95740, AC004662, AF196969, AC002378, AC010206, AP000356, AF117829, AP000252, AC005902, AP000212, AC006581, AC004841, Z85987, AP000031, AC005622, U91323, AC004999, Z95331, AC004534, AC005482, AP001067, AC004973, AL132708, AL021917, AC005659, AL121754, AC002312, AC007277, Z98941, AF067844, U91321, AC004087, Z98044, AL121754, AC002312, AC008928, AC006160, AC005658, AC004033, AC004025, AC004953, AL031985, AC004134, AC005211, AC004079, U89387, AF111167, AC000127, AL008732, Z98743, AC004796, AC005969, AC004144, AC005793, AC004935, AC008064, AL049709, AC004143, AC006011, AC004985, AL121577, AL049539, AC004084, AL022718, AL122020, AP000167, AC005488, AL132987, U95739, AL049843, AF001548, Z96074, AR036572, U91328, AC005088, AC004552, AC003078, AL022165, AL009181, AL133163, Z83822, AP000343, AC004638, AL049872, AL049835, AC007371, AC005105, AC006026, AL035407, AC004638, AL049872, AL034402, AC005280, AL022721, U82671, AC002522, AC000095, Z95113, Z95116, AC004992, AC006515, AL022316, Z93023, AC003010, Z84466, AC007707, AC004410, AC007057, AC006059, AC004927, AC003065, AC005033, AC005033, AC007245, AL078463, AC007435, AC002492, and AL117375.
HLYDC02	2966	919586	1 - 730	15 - 744	
HLYDC77	2967	772022	1 - 438	15 - 452	
HLYDD13	2968	657010	1 - 547	15 - 561	
HLYDG06	2969	935149	1 - 645	15 - 659	AI476323.
HLYDG21	2970	856413	1 - 538	15 - 552	AI306717, H81406, AL134167, AA496309, AA653823, AW408596, AA582746, AA837771, AI185394, AW237905, AI417586, AI186233, AA714011, AW084173, AI915081, AI973173, AI569700, F35684, AA368329, H40478, AA487226, AI520967, AA111870, AI678287, AA502207, AA581247, AA018231, AI680547, AI298079, F33037, AI300818, AI310992, AA434078, AI078409, T08386, AI187148, AW069227, AL135363, AI755057, AA658131, AA715962, AA297006, AA722505, AA445949, AI634187, AI697242, AA077637, AI457313, AA378489, AA297698, AI272192, AI340832, AA557911, AW440451, AA778962, AI565138, AW028170, AA715983, AI653783, AL042373, AA947369, AA937809, AA071045, S42653, AC006479, AL034419, M87912, AI049839, AC005014, AF165141, AL133246, AL022323, AC007421, AL133245, AC005846, AL031984, Z84470, AC007993, AL022328, AC004385, AC004622, AL034429, AL049795, AP000142, AP000089, AC004817, AC004694, AC007773,

HLYDG27	2971	682910	1 - 568	15 - 582	AF001549, AC009247, AC007686, AC004230, AC006014, AP000472, AC005821, AC005081, U91326, AC004831, AC006236, AC002544, AF111167, AL035495, D87675, Z95152, AC012384, AC005488, AC005043, AC005104, AC005763, AC005015, AL023876, AB001523, AC004106, M55270, AC009946, AC004820, AC005519, AC002429, AC005924, Z84469, AC007386, AL050312, AC005911, AL031428, Z94801, AC004041, AL035683, AC004223, AF196779, AL035417, AC002094, AL031276, AP001065, AP000113, AP000045, AC007563, Z95115, Z97196, AC007436, AC006468, AC007156, AC004796, U07561, AL133035, AC005871, AC003963, AL031602, AL049766, AL031278, AL035458, AC005736, AF029308, AC007792, AL008707, Z98885, AC004025, AL132712, AC005288, AC007546, AP000313, AC005409, AP000501, AL031659, AL133312, AC005746, U62317, AC004076, AF196971, U95742, U91318, Z82195, AC006088, AC006285, Z82205, AL035414, AC004841, AP000050, AC007655, AC004874, Z95114, AL022394, AL050307, AL021579, AL031775, AL022316, AP000558, AC003669, AL109963, AC004129, AC005480, AL049872, AL049745, AC005189, AP000509, AL022326, AP000117, AL008734, AC004112, AC004383, AC004819, AF135187, AL135960, AJ131016, AL049776, AC005078, AL022476, AC005829, AD000813, AC004148, AP000022, AC006582, AC006430, AC007308, AC003684, Z98750, Z82176, AC003982, AL109623, AC002077, AC005722, AC004253, AC002314, AL031393, Z97054, AL049540, AF001552, AC005551, AL096701, AC005280, AC004797, AC005328, AL109798, AL034420, AC002059, U62292, AP000163, AC006062, AC005612, AC005585, Z98743, AL035587, AL117352, AF048729, AL080313, AL031680, AC002364, AL049830, AC005773, AC002492, AC007052, AC006026, AC004765, AC002477, AC007216, AC005877, Z49236, AC004655, AL080317, AC007298, AL132641, AF139813, Z98048, AP000694, AC005206, AC005294, AL009172, AC005943, AF181897, AC002470, Z93784, AC005971, AL031686, AF064857, Z98304, AC005225, AL022312, AC004560, AC000120, AL031657, AL031283, AL022165, AB000931, AC006276, AL117354, AL031595, Z84466, AC005790, AC011311, Z83846, AC004228, Z82184, AL022318, AC005667, AL031589, AP001056, AL022333, AC007774, AC005513, AC007225, and AL031390.
HLYDG38	2972	597131	1 - 397	15 - 411	T83869.
HLYDG59	2973	871587	1 - 439	15 - 453	
HLYDH27	2974	678266	1 - 703	15 - 717	AA572675, AA579556, AI361854, T95591, T95067, and AA813887.
HLYDH32	2975	699082	1 - 717	15 - 731	AA252702.
HLYDH52	2976	726575	1 - 526	15 - 540	R99046.
HLYDJ08	2977	959055	1 - 513	15 - 527	AI590217, AA343092, AA317170, AW157326, AW236342, AA593060, C05755, C06327, AI937850, AA574282, AI114846, AW419262, AW440976, AI923140, AI653905, AA330380, AW131249, AW390062, AA663306, F35659, AA947370, AA828984, AI291124, AA084070, AA244208, M86058, AI291268, AI537030, AA190911, AI312149, AL118947, AW406162,

		1 - 555	15 - 569	T10560, AA837351, AA348929, AA704391, AA640979, AW167267, Z92844, AC000353, AC005690, AL137191, AL021918, Z86062, AC005911, AC005998, AC005702, AC004672, AL033392, AC004168, AL133355, AC003966, AC002985, AC005197, AC005350, AP000352, AC005625, AC004592, AC006162, AP000462, AC005704, AL021546, AC005233, AL021453, AL035457, AL022160, AP000359, AL022394, AC007536, AC007283, AC004802, AL031589, X03273, AC005620, AL096701, Z84718, AC002072, AC006251, AF165926, AC005180, Z83840, AC005619, AC004941, AC004227, AL049875, AL049860, AF042090, AP000555, AP000042, AC004834, AC005829, AC002347, AP000431, AC009247, AC004066, Z99774, AC002526, AC004019, AC003007, AL031347, AC008115, AC006480, AL031291, AC006925, AC005208, AF015170, AL034582, AL008734, X66401, AP000513, AC002073, AP000689, AC004884, Z73900, AC005696, U97187, AC005328, AL022238, AC004972, AC005632, Z83841, AC005786, AC007688, Z83846, AC005837, AL022721, AL021937, AC007899, AC005565, and AC004525.
HLYDK74	2978	738346		
HLYDL24	2979	677041	1 - 488	15 - 502	AW005554.
HLYDL60	2980	909866	1 - 378	15 - 392	AA129914, AA128462, H94876, H72836, and AI818080.
HLYDL75	2981	790244	1 - 555	15 - 569	D29642.
HLYDM51	2982	973377	1 - 503	15 - 517	Z99396, AL036418, AL038837, AL037051, AL036725, AA631969, AW392670, AL039074, U46341, AL036924, AW372827, AL036858, AL119497, AL038509, AW384394, AL039564, AL039085, AL037094, AL039156, AL039108, AL119483, AW363220, AL039109, AL039128, AL036196, AL036190, AL119319, AL119355, AL119457, AL119443, AL037526, AL119324, AL036767, AL039659, AL037082, U46349, AL119484, AL119363, AL119391, AL037639, U46350, AL119522, AL038531, U46351, AL119341, AL119335, AL043029, AL119496, AL119396, AL039625, AL039648, AL045337, AL119444, AL119418, AL036238, AL037077, U46347, AL037085, AL042909, AL134920, AL039678, AL039629, AL134531, AL134538, AL039386, U46346, AL036733, AL042965, AL037205, AL119439, AL039423, AL036268, AL042984, AL042975, AL039150, AL038447, AL040992, AL042614, AL134528, AL042433, AL038520, AL042973, AL134533, AL037027, AL036998, AL119399, AL037615, AL038851, AI142134, U46345, AL043011, AL042551, AL119464, AL036191, AL042544, AL043019, AL043033, AL039410, AL042450, AL042542, AL037178, AL036679, AL036765, AL036719, AL043003, AL036774, AL037021, AL036836, AL036999, AL036158, AL036886, AR060234, AR066494, A81671, AR023813, AR064707, AR069079, AB026436, and AR054110.
HLYDM62	2983	743380	1 - 547	15 - 561	AL022098, and AC005215.
HLYDO56	2984	733240	1 - 220	15 - 234	AA026296, AA086041, AA031432, and AA026297.
HLYDO75	2985	767170	1 - 346	15 - 360	T97786, AA007533, AL031432, AC004520, and AL031737.
HLYDS11	2986	966732	1 - 431	15 - 445	
HLYDS66	2987	711565	1 - 508	15 - 522	
HLYDS84	2988	687991	1 - 533	15 - 547	AW080134, AA377730, AA358122, AI264743, AA913114, AI305766, AI193007, N20066,

AI469968, N35896, AI075744, AI312309, AI648558, AA001418, AI888752, AW023672,
AA482711, AA384502, AA593471, AI305547, AI471543, AA344959, AA452563, AI685198,
AA569468, AA448231, AI672135, AA448375, AA977743, AA318652, AA226634, AI471481,
AI345459, AI336660, AI471534, AW302309, AI206785, AA452744, AI446464, AI133102,
AA161181, AI049707, AW276817, AA837755, AL133862, AI469624, AI565581, AW117750,
AI266576, AW167267, AI133164, AI358343, AI439960, F23279, AW243960, AA394271,
AI679706, AI313166, T15948, R77905, C75026, AI341664, AI679132, AA626678, F37169,
AI683577, AL118911, AI815000, AA084715, AW008317, AA482768, AI921188, AA434484,
AA938225, F32705, AI064864, AI038833, H64777, AA364429, AA913549, AA680211,
AA377621, F25203, AW131249, N25296, H00934, AI017415, AW272758, AA340960, AI005388,
AL135405, C19058, AA480762, AI814735, R98967, AI871722, F31204, AA328169, AI523897,
AI571512, AA558697, F36273, AI824562, AA569471, AA634227, AI493217, AA363989,
AA515435, AI583594, AA078849, AAA338642, AA134335, AI282661, T16592, N70648,
AA702605, AA320830, AA016286, AL047643, AI887483, AW338869, AA126035, AA810370,
AI126051, AW272641, AI143242, C17838, AI205126, F18974, H69914, AA558060, AI355224,
AW074398, AI858451, F04987, AA077817, F37286, AA515128, AA780929, AI672857,
AC000052, AC004019, AF035397, AC004935, AC006474, AF003627, AF207550, AL021707,
AL049795, AC005915, AC007076, AC004232, AL132718, U40369, AC007666, X75335,
AC005514, AC004466, AC004066, AC004916, AC004862, AC005512, L48472, AC006126,
AC004039, AL035071, AC005341, AL109759, AC007387, D86993, AP000049, AC007564,
AC004134, AC004859, AP000311, AC007397, AL035079, AC009542, AC004065, AC009330,
AC004973, AC005076, AL023284, AC009464, U62292, AL034549, AF169121, AP000142,
AP000128, AP000206, AL109657, AL031177, AP000245, AC006450, AL109985, AC004966,
AC005667, AL023880, AL133246, AC004745, AC004050, AP000966, AC005740, AB033056,
AC009509, AC002301, AC005971, AC006035, AF042091, AP000090, AC005822, U95740,
AC006287, AL132800, AL118516, AF147277, AB020668, AL109755, U85195, AC006071,
AL049611, AL034343, AC004690, AC002375, AE000658, AC006565, AC006596, D87675, U63721,
AP000503, AC006318, AL035659, AP000558, AC005046, AL023513, AL031587, AC007543,
AP000011, AL034429, AL133500, AC004765, AL008582, AF134726, AC004638, AL021391,
AF217403, AL031429, AL109628, AC005783, AC004034, AC002429, AC004028, AL022722,
AC000379, AL096829, AC007917, AC002465, AC006946, AF006501, AC005264, AC005838,
AP000115, AL049856, AL031846, AP000557, AC004139, AC003682, AF042090, Z49154,
AC003003, AC006486, AL033525, AC009516, AC006008, Z84488, AC004531, Z98755,
AC002433, AC005069, Z80899, AL109827, AC003989, AC005385, AC000119, AL133448,
AC004773, AC002984, AC004848, AJ003147, AF064861, AL034582, AC006195, AC005821,
AC005159, AC000353, AC005274, AL078581, U14702, AC006965, AC000159, AL031123,

HLYDS91	2989	775483	1-458	15-472	AL031229, U93237, AC005231, AC007690, AL031575, AJ012197, Z68284, AC002564, AL050320, AL049831, AC005829, AL035458, AL034420, AC006026, AL096791, U14714, U14715, AC004087, AC002508, AC004895, AC005037, AL033527, AC005229, Z98304, AD000833, D83989, AL008722, AF109907, AL034370, AL031319, U73024, AL109847, AC006057, AF131217, AC004686, AL023553, U71218, AC004797, AL031311, AL050312, AC005911, AC006465, AC005412, AC007283, AC002073, Z81308, AL031432, AL049776, AC005516, AL049647, AL096701, U55182, AC004994, AL035420, AF051934, AC005800, Z97183, AP001039, AL031282, AL031012, AF077058, AC005211, AC005356, AC006048, U92032, AC010168, AB023058, AP000521, AL117355, AC005879, Z99716, AC004526, AF055066, and AL080243.
HLYDT03	2990	920268	1-557	15-571	AA482994.
HLYDT68	2991	526245	1-320	15-334	
HLYDU08	2992	959074	1-370	15-384	
HLYDV62	2993	927872	1-583	15-597	AA326846, AI074002, AI084046, AA187426, and AW453048.
HLYDX93	2994	669792	1-548	15-562	
HLYDZ44	2995	716435	1-584	15-598	R14337, AA485189, and AB030181.
HLYEB56	2996	710819	1-316	15-330	AI983188.
HLYED52	2997	931992	1-350	15-364	
HLYED59	2998	856383	1-688	15-702	AI374993, N94590, W23797, AA585403, AI383156, and AC000353.
HLYED65	2999	747763	1-213	15-227	H72741.
HLYED77	3000	615312	1-419	15-433	
HLYED85	3001	784254	1-641	15-655	AA888665.
HLYEE34	3002	703906	1-554	15-568	
HLYEJ81	3003	488925	1-555	15-569	
HLYEL47	3004	666448	1-563	15-577	
HLYEN93	3005	682176	1-612	15-626	
HLYEQ40	3006	710986	1-297	15-311	
HLYEQ73	3007	760566	1-339	15-353	
HLYER38	3008	709181	1-386	15-400	
HLYET03	3009	923834	1-447	15-461	AA164189.
HLYFA27	3010	682763	1-525	15-539	AW405746, AI479114, AA845235, AI766637, and AI361762.
HLYFA58	3011	835409	1-393	15-407	AA504562.
HLYFC15	3012	923620	1-858	15-872	AW085626, W24802, AI754926, AA527633, R63460, AW028376, R23449, AA465198,
HLYFF10	3013	964109	1-563	15-577	AA338395, AI797998, R96319, Y18000, AC004000, AC005971, AC004882, AC005529,

					AC007051, AL078612, AC005358, U95739, AC007536, AL022721, AL031121, AL049830, AL022326, AC007919, AP000512, AL049709, AC005839, AC004009, AL033381, AC005695, AC007371, AL078476, AP000356, AC007666, AC002477, AC009516, U10580, AC006581, AL022316, AC005037, AC005209, AC007057, AL049872, AL022165, AL008582, AC005377, AD000092, AC005225, AL049569, AL049694, AC003013, AC004804, AL035086, AP000555, AC005618, AL031255, AC004988, AL031003, AC004526, AL050321, AC009247, AC005237, Z94721, Z69375, AC000052, AC004472, AC005694, AC002310, U85195, AL050308, AL022311, AL133448, AL022327, Z97056, AC005585, Z97183, AL121580, AE000658, AC005527, AC002544, AC001643, AC005899, AC006480, Z97054, AC005632, AC007546, AL031985, AC004099, AF001550, U78027, AC004185, AL035422, AC005207, AP000692, AL022320, AC004019, AC004862, AB022785, AC005913, AC006511, AL022476, AC006930, Z85986, AC006241, AC006468, AL008725, AL021707, AC007514, AC005800, AL079295, AC005231, AC000004, AC008115, AC004967, AC004100, AL009181, AL109758, AL034420, AC005291, AP000558, AP000553, and Z99128.
HLYFF64	3014	746339	1 - 476	15 - 490	AA858380, AW269071, AW271095, AW302832, AI284536, AI251563, AI252141, AI733946, AI733930, AI792695, AI792746, AI792842, AI252190, AI792856, AL080242, AC004876, AC004645, AC006111, AC000091, AC004169, AR036572, U91328, AC004771, AL031775, AB001523, Z99754, AC004652, AC006129, AC004509, AC004828, AL022329, Y07661, AD000684, and AC000026.
HLYFI64	3015	924558	1 - 529	15 - 543	AA287719, AI806591, and AI418161.
HLYFK47	3016	953988	1 - 423	15 - 437	AI061334, AW088202, AW162049, AW080134, AI570261, AI929531, AW104748, AA482711, AL046409, AI357551, AI963720, AA714453, AI471481, AI341664, AI962050, AI344844, AW029038, AI049634, AI350211, AA581903, AI814735, N53150, AI133636, AW166815, AI567674, AA610491, AI291268, AW193432, AI291124, AW302013, AI688846, AI890923, AI375710, AI339850, AA713815, AW265009, AW193265, AI284640, AA559290, AI561255, AI669453, AI761471, AA826303, R94721, T07451, AI801600, C05755, AA501600, AI679782, AI368745, AA594145, AA649642, AI613280, AA161095, AA722048, AI561060, AI589230, AA652057, AI625244, AI860020, AI283911, AW062724, AL120674, AW440836, AI469003, AW438643, AA531372, C06458, AA584752, AI049722, AA828704, AI251002, AI517955, AA350859, AW276827, AA513181, AA079831, AI446601, AI374809, AI345654, AA470969, AI370878, AI431303, AA507547, AW079135, AI251436, AI364809, AA143516, AA806796, AA652764, AA302963, AA507547, T28550, AA340747, AI918421, AA551503, AA491814, AA598824, AI198376, AI635818, T28550, AA340747, AA084070, AA582911, AI888518, AA843450, R98967, AI917271, F04478, AI859742, AI890348, AA084070, AA582911, AI744995, AW238278, AW276817, AA513293, AW008212, AI654525, AI270117, AA847499, AI821271, AI619997, AA934680, AA632868, AW273218, AI301700, R97934, AW070892, AI821271, AA364224, AI348929, AI801591, AI564185, AI799642, AI371070, AA719805,

AW021583, T55213, AW088616, AW103981, AL042420, AI919029, N27329, AW265393,
AI951863, AW117750, AA634146, AW300625, AA599920, AI151261, AA720702, AI634384,
U51696, AA489775, AA837084, AI298710, AA832145, AA346458, AA947811, AW169537,
AI418164, AA225230, AA664015, AA494097, AA634227, AI915293, W73048, AW131213,
N29948, AI537030, AI921476, AI193007, AI828738, AI262909, AA577906, AA522942,
AW247819, AI827234, AI376100, AI002834, AI921649, AA583955, AL038785, N43757,
AW276435, AA644551, AA613345, AA364429, T06828, AA515051, AA486414, AI583594,
AI708009, AA491831, AI610159, AI754955, AA970213, AI963095, AW303876, H93144,
AA603156, AA584201, F25199, AA653618, AW102955, AA598997, AI439210, AI334443,
AW327868, AI133164, AA468022, AA502866, R71615, AA599026, AI053672, AI339440,
AI289067, AA259245, C06327, AI821356, F01314, C05986, AA213741, AA502155, AI471543,
S75201, AF015160, U57007, AF015162, U18396, AF015153, AF077058, AF015155, U12584,
D83989, X75335, X53550, X54180, S75337, X54177, U18392, M87919, AF015167, U57005,
U57006, AF015166, U18393, U18391, U18394, X55925, U18390, I51997, U02532, U57008,
X55932, U14695, U18395, S77605, U12582, X74558, X54175, U14703, A39972, U02507,
X55926, AF015154, X55930, AL132712, X62354, U18387, AF015151, X55931, X54179, X55924,
AF134726, AL078581, L35531, AP000503, AC007934, X54181, X54178, AL121694, U14705,
S70707, AL132800, U67801, U14694, U50871, AL035450, X53549, AC006596, AC008249,
AF015157, U14701, U12580, U14719, X76629, AP001065, AC002477, AC005523, S70699,
U67827, AF015171, AL049712, L47228, U14718, AF015156, AF015149, U18400, Z83840,
AC005808, AF038458, U14712, AL096776, AF015147, S70689, S70692, X55922, AL133241,
AF045555, AP001068, AL023575, U66059, M37551, AL133500, AF015170, U14714, AC005619,
AC005006, AF015165, AC002565, AC005081, U14713, AL031295, AL021154, U12583,
AF140763, Z30979, U14716, AC007051, AC007919, AC005046, AL122003, AC007242,
AJ011930, U14715, U14711, Z83856, AF060568, U47924, AF015158, M87916, Z22650,
AL023882, AR000118, AL021391, U02531, AL133448, AF015163, AC004492, Z69706,
AC004853, AC005535, AL121653, AJ003147, S70706, Z98051, U14698, AC000052, AC005228,
AC007541, AF015168, AL121603, AL117330, Z86061, X88791, AC007225, U75931, AC001234,
AC006486, AC005089, AC006249, U12581, U67829, AL135744, AC004814, AP000359,
AC006455, U14717, AC004019, AP000114, AC004884, Z93241, AL034423, Z74739, AL121748,
AC005913, U14706, AF015150, X55928, U18398, D87675, U57009, AC005763, AC007022,
AF207550, AC003045, AL049757, AC002086, U67233, U57004, U14700, U18399, Z79422,
U14689, U14702, X52851, AP001067, AC004491, AL049777, AL049836, M37547, AC002465,
AL031681, M87923, AP000402, AL096701, S42659, AL109758, U67211, Z94044, U67231,
AC003035, AC006476, AL031258, AC006285, AL049776, U67211, Z94044, U67831, U67231,
AL021878, AC006511, AP000517, AP000513, AL121757, AC006128, AL031670, AL078604,
AP000090, AC006277, AC007191, AL031230, AC005866, AC003029, AC005295, AC004796,

HLYFO83	3017	863918	1 - 449	15 - 463	AL021707, AL035681, AL049552, AC006195, U67222, AC004890, AC002041, AC005541, AF064861, AC003957, AL021397, M19045, J03801, E01888, E02193, AL031286, U67229, and AL033376.
HLYFP23	3018	675373	1 - 515	15 - 529	AA594591.
HLYFR38	3019	709184	1 - 108	15 - 122	
HLYFU64	3020	936051	1 - 429	15 - 443	AI469555, Z33443, N76673, AA069889, AA281224, Z74620, AL031602, Z70227, AP000336, AL022577, AL035653, AP000215, AC004646, AB006903, AJ239329, AL078477, AC004081, AF186194, Z95703, AC005726, AP000084, and AP000221.
HLYFX27	3021	682776	1 - 168	15 - 182	AC002458, AC005412, and AC007065.
HLYFX40	3022	710851	1 - 490	15 - 504	N76624, and AC005740.
HLYFX96	3023	916452	1 - 232	15 - 246	AI187732, and AA706963.
HLYFY33	3024	719251	1 - 300	15 - 314	AA352500, AI024945, AI493761, AA340178, AI192435, AA032024, AA452969, AA447052, AI038406, AA575836, AI143749, W38849, AA643304, AA811387, AA296364, AA829930, AI783713, AA568692, AI767267, W58767, AA443666, AI708679, AI761290, D82533, AA890233, W56507, AI312651, C05835, AI247870, AA639508, AA847787, AI338935, C05751, N80205, AA412478, AA828434, AA928571, AI741989, D83838, AI078010, AI191125, AI888718, AA814538, D83836, AI206832, AI241436, AA628649, AA676899, W52897, AI683306, H44229, AI932299, W56778, AA897470, AA452830, N93132, C06275, AA523873, R10897, AA659136, N69930, W38563, AA715017, U57692, and U57691.
HLYFY78	3025	660000	1 - 477	15 - 491	
HLYGA32	3026	698860	1 - 543	15 - 557	
HLYGA46	3027	952292	1 - 754	15 - 768	
HLYGC11	3028	966480	1 - 461	15 - 475	
HLYGC18	3029	665721	1 - 543	15 - 557	
HLYGC63	3030	744739	1 - 526	15 - 540	AA381269, AI859834, AA663966, AI754955, AI350211, AW193265, AI537077, AA490183, AI434695, AA515905, AA577906, AI151407, AI613280, AW276827, AA857486, AI754658, AL118991, AA483223, AI979005, AL048925, AI744995, AL041706, AA623002, AL038705, AW080811, AA594145, AA713891, AA469451, AA493708, H73230, AI860013, AI379719, T47936, AW050734, AW275719, AI433247, AL040382, H88666, AW276435, AI814735, AA503258, AW263864, AI859946, R17793, AA177061, AA652764, F36273, AA665021, AI635279, AI061313, AA226153, AA721524, AL119691, AA122223, AA493621, AA488746, N76766, AI933714, AI570943, AA846876, AA587604, AI745151, AA806796, AW103758, AI358501, AA502963, AW337454, AA613203, AI204304, AA599480, AI561060, AA767963, AA569471, AW129001, AW338086, AI623898, AA503154, AW408707, AA779783, AI471815, AI708444, AI865213, AI708009, AA598425, N53150, AI446474, AA633582, AW021583,

HLYGE28	3031	686173	1 - 565	15 - 579	AI654247, AW304805, AA765170, AI753488, AA136122, AW020992, AI755214, AI754567, AI623899, AII33164, AI598003, AI367497, AI610607, AA789192, AA535661, AC003007, AC005632, AC002310, AC007191, AC005562, AL049557, U85195, AL022316, AC002470, AE000658, AC002316, AC004987, AC006285, AC004832, Z82214, AC007298, AC005839, AL022721, AC008115, AC000353, AC002400, U95742, AC005081, AL023803, AC005702, AC004890, AD000092, AC007216, Z93241, AC002429, AL049829, AC008372, AC005808, U47924, Z98051, AC005529, AC004859, AC006312, AC005940, AC005666, Z85986, AP000359, AL008718, AL050402, AC007510, AL096829, AC004933, AL023581, AC004760, AL049758, AC005046, AF001550, AL035450, AC004647, AL031311, AC004638, AF196779, AC003051, AL133500, AL079340, AL049776, AP000123, AP000055, AP000170, AC003071, Z83822, AL049709, AL022476, AL121748, AC005763, AL031284, AC003098, D87675, AC006581, AC006111, AC005527, AC006040, AL031587, AC004019, AC003664, Z69917, AL008730, AL049745, AC002301, AC006057, AL031432, AC002312, AL034549, AL023575, AC005229, AL080250, U80017, AL078463, AC004477, AL049869, AC016830, AC004041, AL133485, AC007666, AC009516, AL031650, AL022165, AL024498, AC007227, AC006011, AF141309, AL034384, AC007731, AP000459, AC004963, Z97054, AP000552, AC004699, AC003982, AB000882, AF207550, AC005500, AC007051, AJ003147, AC007387, AC005216, AL078581, AP000512, AL022302, AL022323, AL035683, AC005209, AC005740, AC007285, AF111168, Z83844, AC002430, AL049872, AC004685, AC004686, AB023049, AC004584, AC020663, AL121934, AC007030, AC004953, AC005065, AC005291, AC007151, AC005944, AC005844, AC002395, AC007384, AL135745, AC004525, AC005821, AC002303, AC002385, AL080243, AP000557, AP001051, AC007076, AL035608, AC000039, AC002041, AC005694, AC012085, AC004167, AC004884, AC005412, AL031719, AC003684, AC006030, AC000134, Z83845, AL035659, AC005755, AC007919, AL022313, AC004975, AC000052, AC006120, AC006128, AL034351, AL133245, AC007676, AL031286, AL031588, AL021154, AC006486, AC002549, AC004596, AC005015, U07562, AC004257, AL049779, AC007707, AP000513, AL031428, AC005089, AC007363, AL109865, AL139054, AL035451, AC004999, AP000252, AF029308, AC007225, AC016025, U66059, AC002350, AC004386, Z94056, AC006928, AL096710, AL035690, AL031662, Z75741, AC007877, AC005969, AL117330, AL035460, AL035420, AC006288, AC006006, AC007774, AC005399, AC006552, AL109985, AC008101, AC010168, AC007564, AL022328, AC006211, AF067844, AC005393, AC002425, AC007226, AF053356, AC004496, AC006153, AL035681, AC006538, AC006050, AL136297, AC006130, AC004783, AC004526, AL009179, AC004010, AC005548, AC004381, AP000134, and AP000212.
HLYGH53	3032	871636	1 - 870	15 - 884	AA884313, AA825598, and U95737.
HLYGI23	3033	656698	1 - 245	15 - 259	AI032724, AW008354, and AC004953.
HLYGK24	3034	676907	1 - 267	15 - 281	AA829941, AA906288, and AI914939.

HLYGK77	3035	732362	1 - 433	15 - 447	AL035410.
HLYGK82	3036	698553	1 - 360	15 - 374	
HLYGK96	3037	967628	1 - 467	15 - 481	
HLYGM41	3038	712099	1 - 387	15 - 401	AA513861.
HLYGM53	3039	690748	1 - 629	15 - 643	AA173740.
HLYGP15	3040	920077	1 - 539	15 - 553	
HLYGP26	3041	790301	1 - 415	15 - 429	H56560, R06615, T85748, N92020, AA707219, H90265, and N63876.
HLYGP46	3042	832311	1 - 982	15 - 996	AI004177, AW051735, AI923749, AI635200, AI201473, AI766831, AI352428, AA868576, AI380688, AI936241, AW393044, AW374354, AI318183, AW393061, AW374438, AI005539, AW364275, AA300050, AA909208, AI273127, AA814294, AA705616, AI698332, AI814050, AI273128, T27697, AA878157, N26436, AI224032, AI540961, AA291160, N35079, AW402662, C16472, C16435, H99331, AW408278, and D25278.
HLYGR39	3043	744849	1 - 341	15 - 355	AC004777.
HLYGV02	3044	856376	1 - 389	15 - 403	
HLYGV07	3045	879387	1 - 489	15 - 503	
HLYGV66	3046	697627	1 - 600	15 - 614	T87263, H94155, and AA055829.
HLYHB85	3047	773990	1 - 548	15 - 562	
HLYHG09	3048	590369	1 - 597	15 - 611	AA640056, H69347, H69346, AL021155, AL031588, and AL034418.
HLYHG18	3049	665713	1 - 439	15 - 453	AA075210.
HLYHG45	3050	711741	1 - 620	15 - 634	AA300319.
HLYHI75	3051	767066	1 - 550	15 - 564	AW198107, AA917906, Z36759, H87252, AI521360, AI247128, AI207422, AA843450, AA601230, H47835, AL031657, AC000379, AC005971, AL022165, AC005037, AL049776, AL021391, AC007938, AC004602, Z98036, AJ236694, AL034549, AL022238, AC006441, AD001527, AF047825, AF196969, AL022328, AL049843, AC002312, AL031587, AC003695, AC020663, AC006237, AP000563, AC005482, Z95115, AC005531, AC004882, AL080243, AP000211, AP000133, AP000509, AL021878, AC004797, AL049869, AL049594, Z83840, AL121653, AC006117, AC002091, Z93244, AL035086, AC005332, AP000126, AP000204, AL079342, AL109839, AC005300, AC005206, AC005839, AL109963, AP000553, AC008372, AF134726, AC005031, AC006312, D84394, AC005519, AC005667, AC004087, AC007050, AC005899, AC004998, AC002477, AC003035, AC005808, AL031295, AC005183, AL109984, AC002418, AL022327, AC003035, AC005911, AC004099, AL049694, AL109758, AC004491, AC005015, AC004815, AC006515, AL096712, AC004386, AL021579, AC002470, AL096761, AC007240, AP000704, AC005017, AC006501, AC004228, AC005562, L31848, Z84476, AC012384, AL117330, AL031407, AL008723, AC009516, AL031985, AC005018, AL049552, AF196971, AL133163, AC005069, AC005529, AC004525, AL022311, and AC007114.

HLYHK02	3052	919199	1 - 525	15 - 539	AC004472.
HLYHL74	3053	765292	1 - 534	15 - 548	AA559182, AA573068, AA491823, AC005386, AP000692, AC004662, AC007386, AC007738, AL121653, AC002350, AC002404, AL022320, L05367, AL078581, AC004921, and AL096701.
HLYHM86	3054	784724	1 - 461	15 - 475	AA569573, and AA908998.
HLYHN47	3055	720019	1 - 570	15 - 584	H15547, F02465, and N73834.
HLYHN67	3056	920551	1 - 708	15 - 722	AW387103, R67677, AW404276, H03065, AW403805, AW387108, AI360165, AI891114, AI346739, AA115361, AW410383, AA476376, AI493775, AI373735, AW005762, AI683639, AA814726, AI885010, AI767165, N77394, N52435, AA548360, AA804529, AI335842, Z43872, H12922, F11250, and AF176915.
HLYHQ49	3057	659883	1 - 262	15 - 276	AA380617, and AC005041.
HLYHQ79	3058	751428	1 - 548	15 - 562	H57483, AI888261, R92056, and AA594742.
HMAAA35	3059	773472	1 - 507	15 - 521	T73196, AC007182, and Z64784.
HMAAE04	3060	385644	1 - 317	15 - 331	
HMAAE83	3061	745077	1 - 420	15 - 434	AW445199, AI291885, AI796788, AI291659, AI681688, AI586930, AI863432, and AI371323.
HMAAF10	3062	968199	1 - 413	15 - 427	D57175.
HMABJ56	3063	907640	1 - 401	15 - 415	AI523278.
HMABN34	3064	706264	1 - 459	15 - 473	AI865938, AA608751, AA639946, AI865807, AW068316, AA528500, AA603530, AI814739, AI874201, AB023048, I34294, AC004659, AC005696, AL080243, AC004796, AC006153, U95742, Z94721, AC004821, Z98745, AC007216, AC005678, AF196779, Z98742, L78810, AC004851, AC007055, AL133448, Z85987, AC005081, AP000563, AC002128, AC004812, AC002470, AP000133, AC004491, AC006130, AL021154, AP000558, Z82195, AL109627, AL022323, AP000211, AL031311, AP000510, AC004150, AC005200, AL031662, AL034420, AC004859, AC006111, U91326, AL035587, AC005914, AF060568, AC000159, AL022322, AP000300, AC003010, AP000555, AC006571, AC004522, AC004645, AC004019, D87011, Z93930, AC005519, AC009516, M59250, AC005015, L44140, AL136295, AC002544, AC005412, AC005067, Y18000, AC005747, AC004834, AL021808, AL031737, Y14320, Z93241, AL121769, U29895, AC005358, AC003070, AC004834, AL021808, AL031737, Y14320, Z93241, AL121769, U29895, AC005358, AL049643, AP000030, and AC005940.
HMABQ71	3065	729831	1 - 500	15 - 514	AW298595, AA465415, AA769410, AA465345, AA468904, and AA971248.
HMACS56	3066	733395	1 - 435	15 - 449	
HMADC02	3067	920088	1 - 205	15 - 219	
HMADL77	3068	708074	1 - 143	15 - 157	
HMADM33	3069	970491	1 - 431	15 - 445	
HMADX31	3070	697994	1 - 248	15 - 262	AW452893, Z25062, AI215990, AI699527, AI147565, AI004649, AI291404, AI669727, AI820914, AA479756, AW005622, AA831051, F00452, AA825896, AA885489, AA725719, AA588432, AW071714, AA583305, AW451815, and AA969033.

HMADZ55	3071	1 - 732	15 - 746	AW177706.
HMAEJ62	3072	1 - 347	15 - 361	
HMAFD57	3073	1 - 322	15 - 336	
HMAFF77	3074	1 - 368	15 - 382	AA362198, W21176, H87432, and AA302842.
HMAFM35	3075	1 - 427	15 - 441	
HMAFM55	3076	1 - 417	15 - 431	
HMAFP30	3077	1 - 500	15 - 514	AW392670, Z99396, AW384394, AW372827, AW363220, AL119497, AL119341, AL119443, AL119496, AL119319, AL119355, AL119457, AL119324, U46341, AL119483, AL119484, AL119363, AL119391, U46351, AL119335, AL119522, AL119396, AL119418, U46350, U46349, AL134902, AL042975, U46347, AL119444, U46346, AL042551, AL037205, AL134536, AL042450, AL042614, AL119439, AL042433, AL042984, AL119399, AL042965, AL119401, AL134920, U46345, AL134527, AL134525, AL134538, AI142131, AL043019, AL042970, AL119488, AL042896, AL042544, AL043029, AL042542, AL043003, AL119464, AL037027, AL036765, AC005065, A81671, AR060234, AR066494, AR054110, AB026436, and AR069079.
HMAFY42	3078	1 - 409	15 - 423	AW402092, AA312190, AI907395, AA356734, AW403328, AA357475, AA352723, AW401989, AA352880, AI651812, AA347435, AA347660, AA360333, AW250682, T80305, N34180, AA191246, AF112209, AF052504, U72519, U70211, and AF131766.
HMAFZ61	3079	1 - 90	15 - 104	
HMAGK69	3080	1 - 535	15 - 549	
HMAHP62	3081	1 - 321	15 - 335	
HMAHR04	3082	1 - 98	15 - 112	
HMAHS30	3083	1 - 147	15 - 161	AL035413.
HMAHX69	3084	1 - 469	15 - 483	
HMAIC22	3085	1 - 423	15 - 437	
HMAIP90	3086	1 - 308	15 - 322	
HMAIU62	3087	1 - 539	15 - 553	
HMAJY01	3088	1 - 459	15 - 473	AA779075, AL037910, AA837351, AL134330, AA993198, AI084012, AW403720, AA300052, AA173970, AL045709, AA393847, AA779783, AA811580, R59660, AA262752, AA665257, AI570943, AI978712, AI377413, AI814721, AA059415, AW270619, AA565826, AA664235, AI903081, AA159516, AA252641, AC006965, AC003687, AC005741, AL049745, AC005738, AF118808, AC004534, AC004841, AF121782, AC002351, AL035684, AL034402, AF124523, AL031285, AL080317, AL132987, AP000961, AC000961, AL133246, AL050338, AL008709, AE000660, AL035089, AL020990, AL049838, AC002385, AC005610, Z99495, and AC006368.
HMAKA11	3089	1 - 1707	15 - 1721	
HMAKF82	3090	1 - 603	15 - 617	
HMALL66	3091	1 - 496	15 - 510	AI826091, AA580077, AI359456, AI362274, AI361512, AA861038, AA961076, AW008827,

HMAMA69	3092	975074	1 - 431	15 - 445	AI658621, AI368484, and AC000392.
HMAME11	3093	955999	1 - 2660	15 - 2674	AL049648. AA780265, AI921096, AI766065, W63619, AA399960, AI912594, AW204723, AW300114, AW182579, AI681695, AI634542, AW300127, AW134790, AI672402, AI632484, AI991208, AI921108, AW273778, AI672557, AA829864, AI887668, AA237046, AI498167, AW274451, AI703437, AI870323, AW173366, AI368759, AA455660, AI333733, AA143030, H18069, W73117, AI870510, AW006266, AA972594, AI659606, AI862877, AA167089, AA029847, AA548971, AA602625, W44772, N24939, AA845904, AA669693, AI268864, AA281067, AI130979, AW003963, AA446051, AW189836, AI971599, AI273393, AI392880, AW197453, AI278947, AI351669, N62971, AI308071, AI936847, H98724, AA836448, AI440191, AI989522, AA011285, AA589281, AA293010, AA827358, AI339270, AA459005, AA455715, AI860721, AB02146, AA524204, AA505574, AI364520, AI090733, N66064, H97021, AA135737, AA432293, H72683, N24292, AW190461, AI027367, W93402, AI912153, AA962416, AA719182, AI367284, AW205556, AA911230, AA029982, AA399292, R11703, D25619, H97049, AI699130, N23812, AA952896, N36243, AI168162, AA723573, AA476536, AI214579, AA594325, AI694799, AA975509, AA150983, AI122611, N35346, R61136, AA459224, AA024419, AA044981, AA927127, AA976353, AI631939, AW023248, AA806738, H25442, AI572175, AA858127, AA278458, AA034991, W37092, AI70017, AA024420, D82669, H25487, T33969, T83721, N22469, AI473134, AW150562, T16805, AI383106, R12119, T36116, AI188357, AA98155, H17376, T39763, AI823318, T39771, T39737, AI341595, AA906253, AA715091, N99439, AI611116, N44714, AA281192, T39788, T39778, AA203543, N72004, AA383416, F04896, H10770, Z40617, AA857399, T98192, T98193, AI918795, AW274013, AA907736, AA906256, Z43451, T39764, T17433, AW089288, AI696191, AI692608, AI638777, R47794, AA459004, AA700917, AW378486, AI873655, T39745, AW057906, AA301109, AI368524, AI873204, R40787, W93614, W61128, AI471097, AI935327, AA927938, AA904804, AA010846, N95657, AA034960, H10769, AA091950, N79875, N56479, AW138315, R50427, AA236848, AA724749, AA383283, AI001837, AA365102, AA093695, AI765014, AA471159, AI686101, H72682, AW362319, F07569, and AI091461.
HMCAF27	3094	959557	1 - 553	15 - 567	AI817881, AW271350, AI452395, AI698804, and AL022316.
HMCAJ60	3095	586435	1 - 288	15 - 302	AA179308, AA122166, AA166791, Z25347, N41968, AI087936, AA505715, AA037848, AW351931, AA748014, AA740754, AI193280, AA452481, AA610857, and D79986.
HMCAO01	3096	916843	1 - 606	15 - 620	
HMCAU25	3097	856241	1 - 255	15 - 269	
HMCAW49	3098	974119	1 - 555	15 - 569	
HMCAZ67	3099	751804	1 - 574	15 - 588	R95734, AA702224, AA557260, AW304938, AI761850, and AJ223183.
HMCBI05	3100	932146	1 - 348	15 - 362	
HMCCA45	3101	722027	1 - 430	15 - 444	

HMCCB30	3102	1 - 381	692830	15 - 395	AC004682.
HMCCB62	3103	1 - 229	747136	15 - 243	AW135935, AW138952, AW137754, AW135962, AW138870, AW136428, AW207624, AW139869, AW341135, AI458161, AW341795, AI936474, AI702804, AI298857, AI205685, AI692679, AW340949, AI860249, AI223102, AW341157, AI268060, AI680872, AI692602, AI458917, AI819255, AA724456, AI797139, AI378332, AI457094, AI168190, AI797065, AI689805, AW070376, AW419338, AW117584, AI458888, AA932423, AI150020, AA062985, and AC005829.
HMCCB78	3104	1 - 290	773660	15 - 304	
HMCDB42	3105	1 - 474	713051	15 - 488	AW298470, AW082724, AI304868, AI348442, N20641, AI018013, AA776579, AW293387, AI124624, AW298354, AA804512, AA737473, AI280305, AA923469, R50142, AA837153, AA921954, AA827804, and AA748461.
HMCDM32	3106	1 - 432	699249	15 - 446	AA488432, R77507, AA001526, AA102031, AA443065, W33067, F18394, AW243706, T51965, AA461430, AA774222, AI049662, AA629597, AA724230, R44592, AI363798, AI561335, AA630030, AA659856, AI670124, AA330772, N64437, R79496, AL119025, AA364193, AA642265, T65735, AA195798, AA196052, R78564, AA481363, AA345330, AW270284, AA481375, AA669387, T29360, AA365248, AA825793, M78150, AA620390, T60791, AI874201, AA484148, AI758582, AA747472, AA747620, H95528, AI284583, AA528516, AI349874, AA477771, H39713, H44095, AW341892, AI446464, AI469687, AA312878, AA347820, R81240, H14935, AA745560, AA935789, T71030, AA984387, AA244415, AA828696, AA745431, AA679493, AI468134, AA226364, AA834820, H85382, R13151, AI801600, AI174535, AI345522, AA658235, C18648, AA573695, AI061089, M77950, AA720583, AA551575, H04821, AI801591, AA135119, AI344844, AI619997, AA641103, AW029526, H14931, T71998, AA669522, AI298977, AI225141, AA513939, AA630834, R54885, AW265009, AI439360, N55273, AI499134, AA829405, T15977, R66997, AI921188, AA593533, AA788883, W45336, AI499503, AA192695, H26689, AA115729, AA177063, AA758934, AI473684, AW117750, AI379719, AI565581, AA242863, AW327868, AA533038, AI613261, ALI18911, AA533450, AI871992, T91024, AI792108, H95267, AL048626, AA533092, AB310138, AA196020, AA164251, AI340453, W37913, AI064864, AL041382, AA192337, AI557323, AA034177, N87410, AA525898, H73070, AC003663, AC007358, AR051521, AC006511, AC008079, Z85986, AL133485, AC006210, AC004226, AC004859, AC007919, AC004194, AL033531, AC004638, AL109984, AP000338, AP000216, AC008101, AL031774, U02050, AC004638, Z85987, U90297, AC010349, AC016830, AF128525, AC004383, AF124523, AF147341, D31757, AC005250, Z93930, AF064863, AF026807, L16016, U72790, Z84466, AR060394, X64467, Z99754, D16583, AC005759, AP001056, AC005564, AC005542, AP000698, AC007766, AL021977, AL008716, AL080245, AL022311, AC005591, AC007401, AL117325, AL049758, AC004776, AC004001, AL035073, AL031905, AP000692, AC004891, Z83841, AC004941, AC005208, AC007243, AC004468, AC002472, AB020868, AC005548, AC007664, AL031651, AC008012, AL021395,

HMCDN22	3107	1 - 615	895981	15 - 629	AL121748, AP000501, AF196779, AC005209, AC004782, AC008055, AC006530, U95740, AC005771, AC007151, AL049872, AL022152, AC009275, AC003071, AP000959, AC006277, AC005529, AC006016, L81692, AC004000, Z68277, Z82171, Z75896, AC005620, AC005614, Z82217, AC005755, AC005994, AP000152, AP000010, AL035659, AC005091, AL050331, AC006014, AC002402, AL035667, AL022324, Z97987, AC002091, AC005488, AC006946, AC004036, AP001137, AC005660, AL078580, AC010072, AL080242, AL078581, AL136520, AL031257, AP000359, AJ006995, U02054, AC001555, AF032985, Z49235, AC005327, AL021397, U62293, U63721, AC003026, Z83847, Z98750, AC004752, AC005210, AC005057, AC004933, Z83846, AC005341, AL049691, AC002038, AC000379, AC005007, AC003962, Z31005, AC006121, AC006388, Z99128, AC002461, AF050154, AC007540, AL008631, X55922, AC002485, AC007842, AC008372, AC004652, AC004543, Z99496, AC005154, AC004458, D14813, AL135744, U34879, AL034349, AL035665, Z99495, AC005829, AC005019, and AC002106.
HMCDTY92	3108	1 - 483	974588	15 - 497	AW264938, AA039677, AI554747, AI696900, AL042720, AL045791, AL040219, AA614566, AA459899, AI697044, AA077186, AI201384, AA040234, AA622885, T62577, AI076623, AI247893, AA325208, AA074393, AI858610, AA280172, R10147, AA308856, AI267803, AI870586, AL046240, AA757892, AL048960, AA249116, AI267805, AA906248, AA077724, AW372467, AA999887, H19634, AI203658, AA910849, AA906244, H19636, AI129946, AI949914, AI289213, AI656920, AA996066, AW197305, AA078294, AA345106, AL042573, R10553, N22657, AA127979, AC006014, AC005488, AJ007798, AL137492, AC005071, AF030453, and AC005088.
HMCFA71	3109	1 - 99	760034	15 - 113	AF092170, AF094827, AF053316, AF073481, and AF153472.
HMCFB22	3110	1 - 508	963794	15 - 522	AC005799.
HMCFR51	3111	1 - 414	725425	15 - 428	AL117694.
HMCFW22	3112	1 - 736	674074	15 - 750	AI916866.
HMCGG31	3113	1 - 373	697533	15 - 387	AI093606, R75654, AI223427, AI587676, AL133404, U82523, AC004056, AC006582, U35039, AP000029, AF069679, AF100956, AF055453, U16790, AF140707, AC007585, and AF140708.
HMCGJ36	3114	1 - 149	708050	15 - 163	AA522990, and AA523266.
HMCGN29	3115	1 - 347	690288	15 - 361	AL078593.
HMCGW54	3116	1 - 339	846134	15 - 353	R61207, AA595242, AA885902, AA664829, AI128992, AA191001, AA236451, AA568605, N20562, N21453, AA205313, AW299827, AI421414, AI092515, AI359411, AI678568, AA412120, AI017854, AI080378, AI829849, AI457327, AI278017, AI720720, AW079295, AA604404, AI161131, AW025239, AW004793, N38928, AI202803, AI735406, AI199103, AI937534, R26385, AA931424, R65602, AI341364, N52379, AI206697, AA393099, H60854, H69040, H75378, AI254208, AI033280, AI928767, AA917535, H48236, H92760, H75372, H53825, AI978889, and H48327.

HMCGY77	3117	753133	1 - 389	15 - 403	
HMCHA04	3118	927287	1 - 451	15 - 465	AW352117, AW177440, AW375405, AW377671, AW178893, AW360811, AI535959, AW366296, AW360844, T03269, AW360817, AW179332, C14389, AW179328, T48593, AW375406, D80439, AW378534, D58283, AW377672, AW179023, AW178905, D59859, D80022, C14331, D80166, AW177731, D80212, D80195, D80193, D59927, D59467, D51423, D59619, D80247, AW378528, D80210, AW178906, D51799, D80391, D80164, D59275, AW178762, D80240, D80253, D80045, D80038, AW179019, D80043, D59787, D80227, D59502, AA305409, AW378532, AW360834, AW177501, AW177511, AW377676, D81030, D81026, D80269, C14014, D80268, D80366, D80188, D51022, D80248, D50979, D80219, AW378533, D80522, D50995, D80302, C06015, D51200, AA305578, AW179020, C15076, D59610, D51060, AW352171, C14429, D57483, D51103, AW352170, D59889, D80133, AW178907, AW177733, AW178908, AW179024, D80024, AA514186, AA514188, D80157, AW178911, D80378, D45260, AW179329, AW177505, AW177456, AW178775, AW367950, D80241, AW178909, AW176467, AW179004, D80251, AW178980, AW178986, AW178914, AW178774, AW178754, AW179018, AW352158, D80390, D80314, AA285331, C03092, C75259, AW378539, AW378543, AW378525, AW378540, AW352163, C05695, AI525925, AF123263, I50126, F13647, AW360855, AI525913, AI525917, AA514184, AI557774, AI525923, AW178781, I50132, I50128, I50133, AR066488, AR016514, Y17187, Y17188, A94995, Y12724, AR066487, AR060138, A84916, A45456, A67220, D50010, D89785, A62300, A62298, Y09669, AB028859, A82595, A78862, D34614, D26022, AR060385, A30438, AJ132110, AR018138, A26615, AR052274, A43192, AR008278, X67155, A43190, AR038669, AF058696, A25909, A63261, D88547, X82626, AR008443, AB002449, D13509, A70867, AR062872, AB019242, AR016691, AR016690, U46128, AR025207, A64136, A68321, AR060133, AR008408, AR032065, and X68127.
HMCHE16	3119	856332	1 - 403	15 - 417	AA380953, and AA917719.
HMCHG76	3120	769734	1 - 498	15 - 512	AI628096.
HMCHK22	3121	974585	1 - 627	15 - 641	
HMCIA10	3122	963791	1 - 327	15 - 341	
HMCIA94	3123	853999	1 - 325	15 - 339	
HMCIK90	3124	788596	1 - 389	15 - 403	AI381684.
HMCIS32	3125	698541	1 - 373	15 - 387	
HMCKC30	3126	671952	1 - 354	15 - 368	
HMMAB49	3127	462502	1 - 356	15 - 370	D29160.
HMMAC10	3128	964846	1 - 299	15 - 313	AA468110.
HMMAC19	3129	953580	1 - 342	15 - 356	AA689256.
HMMAC79	3130	577951	1 - 443	15 - 457	

HMMAD06	3131	935734	1-388	15-402	AL031053.
HMMAD35	3132	964749	1-817	15-831	AI281624, AW450798, and AC002302.
HMMAD40	3133	666181	1-431	15-445	AC007165.
HMMAD58	3134	891329	1-668	15-682	AP000556, AP000552, AP000557, AP000128, AP000206, and AP000245.
HMMAE12	3135	970892	1-534	15-548	
HMMAE43	3136	715381	1-344	15-358	
HMMAF44	3137	855916	1-354	15-368	N54179, AI270768, T48871, T62975, AA812433, AI952786, AA652057, F12535, AA448858, AA077817, AA975249, AA125788, AA837351, AA581907, AA720702, AA025083, AI459486, F37052, W38980, AA569187, AA748121, AA649642, AI446464, AI266133, N40368, AA507169, AL045077, AF150152, H74314, AA604613, AW408161, AI460390, AA457280, R32200, AI830390, AW028353, T48872, T40077, AA613329, AA491762, AI016704, AA362700, R26134, AA593243, AI064864, AA452567, AI613459, AW406162, AL036523, N79258, AI439360, AI719434, AA443426, AA224966, AA377767, N23649, AL041706, AA338431, AA878495, AA482681, AC005839, Z84480, AC006026, Z49237, AL021391, AC005972, U07000, AC005207, AL031602, Z83840, AP000269, AP000103, AC006040, AC004134, AL021707, AP000688, AF130343, AC005410, AL109865, AJ003147, AC005387, AC004694, AC006153, AC005602, AF108083, AC005486, AF196969, AF207550, AC005632, AP000033, AL035587, AL035071, AF038406, AD000092, AC006211, AC005542, AC005175, AC004035, AC005362, AP000512, AC003684, AL049589, AC005599, U07563, AC006222, AL121782, AL031589, AC005899, AL133353, AC004922, AC006965, AC004076, AC002543, AL031659, AL078581, AC005184, AJ010770, AL035072, AC004890, AC006251, AC005071, AC007637, AC005841, AL022476, AL035681, AC004983, AC000066, AC002551, AC005887, AL034379, AF053356, AC004595, AP000547, AL031281, AC005793, AC005187, AL080243, AC004687, AC005037, AC005193, AC002504, AC005519, AF131211, AL121825, AC005180, AC006985, AC004263, AC005193, L78810, AC003007, AC005702, AC003098, AC020663, AC016025, U27337, AL031289, AC005254, AC000025, AC005225, AC004819, AL049653, AP000313, AP000050, AC002039, U95742, AP000117, AC007216, AF001549, AC005046, AL049872, AL035658, AC005527, AC005488, AC004638, D88268, U27335, AC006270, U27333, AC005157, AC004596, AC005409, AC007919, AC004549, AL132777, U91326, AC002544, AL031668, AC006064, AC002984, AC016027, AC004854, AC004262, Z95329, AC000070, AF045555, AC009247, AC002477, AC006046, AL121658, AC006385, AC005529, AC004230, Z85987, Z98950, AC004583, AC002404, Z99943, AL008730, AC006958, AB023052, AL031432, AC007226, AC005484, AL022311, AC004966, AC008015, Z98753, AC004848, AC005369, Z99716, AC009178, AC007685, AC005233, AC007731, AP000556, AC004929, AC005261, AC005500, AP000552, Z83846, AP001053, D87675, AL031120, U85195, AC004017, AC006039, AF190465, AC004236, AP000506, AC006511, AC006509, AC009275, AL049757, AC007536, Z73979, AF015416, AC007151, AC003072, AC007993, AD001527, Z86090, AP000504, Z69705,

HMMAJ18	3145	666195	1 - 335	15 - 349	Z99716, AL121603, AC002477, AC012384, AC005722, AL109628, AC005274, AC005081, Z97054, AC006115, AF001550, AC002350, Z83822, AC004963, AC005237, AC005015, AC005291, AL050308, Z99495, AL133246, AL080243, AC004859, AC006160, AC007792, Z77852, Z93096, AC006275, AC004796, AC005183, AC007151, AC006026, AP000103, AL137100, AC004651, AC004760, AC004815, AC005386, AC004990, AC006538, AF001552, AC009263, AC004967, AC003110, AC008012, Z95329, AC005370, AC002543, AC003973, Z98946, AL034549, AC005859, AC005089, AL035681, AL049843, AC009247, I34294, AL024507, AL024498, AC003046, AE000662, AC005520, AC005071, AL022330, AC000077, AC006057, AC016831, AC005940, AC000353, M94081, AC003035, AC008015, AC003690, U91321, AC007688, AF196971, AC002316, AC007283, AL133355, AF29308, U47924, AC004973, D88268, AL109801, U50871, AL034420, Z83844, AL133355, AL049570, AL022326, AP001053, AP000555, Z81010, AL049872, AC006064, AC005067, L78810, AC002565, AL078634, AC006430, AL031121, Z95116, AC000134, AL133353, AP000142, AP000089, AC004878, AP000550, AC005777, AC006480, AC004458, AL049839, Z49208, AC006079, AC005695, AC004887, AL035587, AL096773, AL035422, AC005220, AJ050307, AC007066, AL132777, AC004941, AF047825, Z93930, AC005030, Z84721, AC006509, AC005363, AL021397, AP000252, AP000030, AP000212, AP000134, AC005837, AC008040, AL133245, D87675, AC007450, AC006023, AC007541, AC005759, AL049636, AC005261, AC007023, AC004771, AC006236, AC004834, AC007051, AC008045, AF015262, AC010205, AC007664, U73169, AC005206, AC005667, AP000008, AP000704, AL031230, AC004912, AC007540, AC002302, AC007546, AC005409, AC006121, AC005846, AL035458, AC006576, AC002551, Z97056, AL109657, AL132987, AC004886, Z95152, AJ229043, AC002128, AC004263, Z73359, AF045555, AC005808, AC005318, AF015416, AC006561, AB023048, AC008018, AC005006, AL049823, AC005516, AB023049, AL139054, AC005180, AL009181, AC007566, AC005011, AC005102, Z93023, Z96811, AL096701, AC003663, U91318, AC004098, AC003665, AL049697, AF196969, AL031680, AC004068, AC012039, AC005730, AC005225, AC006241, AL022313, X60459, AC005874, AF134471, AL117694, AL022320, AL136295, AL117354, AC005094, and AC005666.
HMMAL28	3146	677446	1 - 419	15 - 433	
HMMAL63	3147	744861	1 - 422	15 - 436	AI252124, AL047643, AI061313, AW103415, AL138171, AI090513, AI674290, AI890928, AI890570, AL045451, AA715508, AI054030, AA832152, AI141675, AA683031, AA399158, AI287964, AA837709, AI037914, T94714, AI050007, H94871, H64905, AW403177, F23268, AL039761, N57057, AA313078, F28122, AI521112, AI039451, AI279756, AA429942, AA528405, AA375160, D44626, AI124660, AW339568, AA310796, AC005694, AC005529, Z96074, Z93017, AL022336, AC005588, AC005291, AC005102, AC002375, AC006537, AC004647, AC004816,

				AL109952, U16302, Z99716, AC002565, U55184, AL049869, U95737, AC006571, AC007686, AL031120, AC006344, AC004000, AC008984, AF027390, AL050348, AJ251973, AL049757, AL035420, AC004832, AL096791, AL049780, AL118512, AC005527, AP001054, AL009175, AC006948, AL121653, L47124, AC002056, AL035079, AF003529, AC003085, AL031584, AC004967, U91324, AC004257, AL096767, AC002045, AC006449, AP000201, AP000065, AC005972, AC006468, AP000474, Z99570, AL096703, AC003963, AL031319, AP000097, AL035400, AC004817, AC004020, and AC000134.
HMMAP18	3148	1-437	15-451	AI989372, and AL031589.
HMMAP45	3149	1-455	15-469	AL046246.
HMMAP66	3150	1-411	15-425	
HMMAP72	3151	1-393	15-407	
HMMAQ04	3152	1-482	15-496	AA773473, AA532875, AI207476, AA745302, AI370170, T94072, R52008, AI354333, F33490, H13120, H90114, AA335519, AA525807, H15295, AI432298, AA535483, AA713705, AA53332, AA482953, AA214227, AI418661, F35902, F23307, F00211, AW080215, AW381847, AW381904, AA713735, AI054414, H73550, AA626411, AI445774, AI620266, AA828897, AI933681, AI811647, AA018369, W45205, AA425924, AA364006, AL042310, AA626595, AA372881, AA937809, AA192293, AI925462, AA092862, T83057, AA363003, AA584207, C15362, H80989, AA629568, AI312090, AI690497, AA525379, AA856841, AI312784, AI733717, AA513884, AA376358, AA582746, N21300, AA715418, AF047825, AL035405, AL031602, AC005244, Z93241, ZA9236, AL035659, AC005295, Z98884, AL031848, U63721, AC004128, AL034379, AC004988, AC002369, AC005828, AL121754, AL022336, AL031291, AC000120, AC004811, U95741, AC005182, AC002416, AC005086, AC002107, AC002106, AP000065, AL133448, AC008928, AL096701, AC005793, AP000270, AL031283, AC002477, AP001172, AC004631, AF148808, AL022327, Z93023, AB015355, AC006101, AC002511, AL122020, AC004967, AC002091, AC004821, AC005914, AP000304, AP000047, AP000032, AP000103, AP000115, AC004801, AP000493, AL049760, AC005993, AL035450, AF207550, AL117694, AC000025, Z98044, AL024498, AC007058, AL022163, AC005527, AL121769, AD000812, AC005049, AP000501, AC005510, AC007226, AC006312, AP000305, AC006476, AC006057, AC007546, AC003041, AL049829, AL031597, AF024533, AC005488, AL021453, AC005529, AC000070, AC005512, AL049548, AC006365, AF031078, AF030876, AL034348, AC007536, AC004013, AJ010770, AL109628, AB020863, AC002352, AC002126, U62317, AF196972, AC005539, AL109952, AC005324, AC005880, AL109623, AL049692, AC005264, AL132712, AC009946, AC006409, AL035683, AC002301, Z82178, AC005280, AL117258, AC005786, AL096766, AL049570, AC004106, AL135879, AL121790, AC004460, Z97832, AP000320, AC004851, Z98200, AC007792, AL008718, AC006077, AL049776, Z82215, AF196969, AL135960, AJ131016, AF015416, AC004525, AC002303, Z85996, AC007308, AC007227, AC000378, Z68192, AC005105, AC006014, AC005088, AP000510, AL049301, AC002319, AL022726,

HMMAQ15	3153	659966	1 - 600	15 - 614	AP000503, AC004660, Z95115, AC005484, AC005005, AC004671, U91318, AC008055, AL109759, AL008715, AC006344, AL121658, AC005888, AL021808, AC004234, Z97181, X82877, AP000045, AP000113, AB023048, AF001552, AC004552, AC002302, U62293, AC006538, AC006208, AC005291, AF134726, AC003664, AC005261, AC005306, AC004019, AC002492, AP000167, AP000052, AP000120, AF030453, Z93244, Z75407, U96629, L48038, AC004922, AC002559, AC002468, AC007899, AC000026, AC004478, AL035685, AC002059, AC004388, AC007052, AC005057, AC005670, AL109984, AC008124, AC006121, AL133246, AC004692, AF196779, AC005102, AL049780, AL031584, AL049872, AF001550, AC005920, AC006285, AC016025, AC000091, AC004815, AC004782, AC004770, U28687, AC004531, AC004228, AC003663, AP000256, AC007199, AC003007, AL049643, and AC009275.
HMMAQ35	3154	707273	1 - 444	15 - 458	AF039185, H94332, R18760, Z44908, AI591051, AL022238, AL121580, AL008721, AF178030, AC005694, Y18000, AL133224, and AC005529.
HMMAR75	3155	919558	1 - 275	15 - 289	AA501441, AA632988, AA714955, AA618240, AI889579, C16358, AA136253, AA664126, AA719091, T94394, AA136477, AI355246, AW019964, H68343, AI306717, AW022891, W95552, AA368329, AW373542, AA494057, AA835778, AW237905, AA055422, AA482792, AI054090, AA630854, AI246061, R93919, AA650447, AI819391, AA378207, AI860535, T54173, AI609972, AI133083, AI300818, AI310992, AA847340, H86579, H93152, AA515939, AA670108, AI364568, AA503018, AA736488, AA683069, AA779667, AA831997, AA641112, AA229823, AA550989, AA594719, AA837771, N27874, AA524616, H78984, AI417586, AI679390, AI679898, AI445774, AA228979, AL040717, AA196552, AI821936, R83068, AW341955, AA344768, AL040763, R34070, AL048479, AI284543, H79586, AA602906, AL042667, AL042670, AA302978, AI254770, AA633424, AI251944, AI300054, AI251034, AI251203, AI309059, AI251284, AL041240, T40629, AA376358, AW271071, F23338, R51582, AA613761, AI250552, R32162, AW090333, AI469140, AA713724, AA345594, AI421723, AA230146, AI355103, AA015948, AW084173, AI962030, R70883, AA358178, AA468975, AA053463, AL119156, AI671077, F34506, AL119182, F24164, AA659425, AI337612, AW080118, R70884, T74524, AA483606, AW082104, AA622801, AL041375, AA347969, AA570740, T51874, AA568204, T93105, H40478, F34151, AA078384, AI249853, AL042373, AA583547, T60316, AA018923, AA012829, AW084967, C06210, AA568949, AW149241, AA503142, AI983447, AI354602, W45215, AA846978, F31634, H43183, R66537, AI925869, AL049563, AC005859, AC004982, AL050341, AL023803, AC005017, AC010582, AP000087, AC006544, AL035686, Z99716, AL110502, AC007221, AC005747, AC004849, AL049691, AC010206, AL022068, Z94056, AC002350, AC007114, AL031602, AC004801, AC005726, AC006312, AC004099, AC007563, Z97054, AL132712, AC004067, AC005920, AJ133269, AL022720, AC008072, AF067844, AC004988, AC005538, Z82206, AC002302, AC008498, AL031681, AC003992, AL121923, AC003085, AC006004, AC005191, AL049540, AL049838, AC008008, AC007917, Z95152, AL022329,

HMMAS88	3156	1 - 609	15 - 623	AL021368, AC005669, AL109984, AL022330, AL031671, AL133246, AL133396, AC005035, AC004032, U50871, AC004081, AL031289, AP000497, AL133243, U91321, Z81365, AL020997, Z95115, AC002366, AL096765, AL034549, Z93023, AL021938, AL009179, AC003001, AL049729, AC006116, AC006543, AC005094, AL034420, AF178030, AL133353, AC006557, AL022162, AC003042, AL024498, AL117354, AL132857, AL079333, AC004843, AC008119, AC005277, AC007387, AC007387, B34294, AC005280, AC005821, AC007182, AC003046, AL035684, Z83847, AC007387, AC003689, AL031667, AC005082, Z98941, AC004134, Z84480, AC004787, U73023, AC000025, AC007687, AL049779, AC004757, AC005527, Z80232, AC006582, AC019014, AL035423, AC005962, AC004585, AC004894, AC007743, AL031177, AL031121, AC009275, Z84474, AC005231, AC007200, AL031291, U89337, AC009501, AC007358, AF130343, AC006023, AC004831, AF121781, AC005182, AP000090, AC002066, AP000355, AC003684, AC004842, Z97053, AL022320, AC005529, AC007938, AC004217, AC007510, AC003664, AC004500, AC007240, AL109956, AF196779, AL049766, AC003037, AC004485, AC006387, AL049869, AC005908, AC008150, D87675, AP000152, AC004765, AP000210, AP000132, AP000248, AL133445, AC004816, AC005544, Z97832, U52112, AC006305, AC005294, AC005532, AL136168, AC006035, AC007193, AC004821, AC004884, AL049569, Z68324, U85195, AF002223, AC006088, AC005703, Z78660, AE000658, AC007253, AC002316, AL121820, AC005696, AL049643, AC006137, AL035563, U82828, AF049895, Z74581, AC004042, AP000008, AP000704, AC004983, AL031584, AL031983, AC003104, AL021546, AC005187, AL096678, AL133355, AP000106, AP000038, AC006501, AL035413, AL121825, AC004797, AC003991, AC006042, AL049830, AC005214, AC005740, AC012384, AC006566, AC000035, and AC006115.
				AA721645, AA303054, T94405, AA806653, T89133, R02532, T89133, AA729284, AA742815, AW069227, AC004975, AC003665, AF111167, AP000558, AC007382, AL031276, AC009263, AC009516, AC005233, AL022312, AC003070, AL031311, AC004000, L78810, AC004895, AC005017, AF001550, AL049832, AC002470, AL023803, AC005821, AL023577, AC007021, AC003041, AL109798, AC005200, AL021407, AL035086, AC004834, AF029308, Z85986, AL033375, AL035413, AC004257, AC005578, AC005773, AC005773, AC008044, AC004495, AC006445, AC005527, Y12851, AC005808, AL110122, AJ239325, D86566, AL031848, AC007030, AC004019, and AC002991.
HMMAS91	3157	1 - 455	15 - 469	AA889566, AA935287, AL049232, and Z93016.
HMMAT17	3158	1 - 448	15 - 462	
HMMAT26	3159	1 - 474	15 - 488	AA829056, AA572879, AA828844, AB023049, AL022476, AC006312, AC002470, AL049856, AC004526, AC007308, AC004491, AC005736, AC007376, AC007686, AL049776, AC005839, AC005291, AL031657, L78810, AC000052, AC005071, AC005899, AL031680, AC004955, AC006162, AP000512, AC006277, Z97056, AC004448, AL031295, Z85987, AL021707, AL109628, AC004659, AC002365, AC005244, AC006006, AB023051, AC004000, AC007358,

HMMAT78	3160	733239	1 - 352	15 - 366	AC004019, AC006441, and AC005089.
HMMAU10	3161	964281	1 - 434	15 - 448	AW028950, F01222, AA878492, AA501867, AA773128, AI798041, AA342238, AA552724, AI249688, AA856815, AA857812, AA580572, AI538236, AA219024, AA303054, AA533660, R99533, AI587467, AA429942, AA666215, AI791659, AI077941, T69879, AI336771, AA618035, AI209075, T71936, AA693484, AA767966, AI271762, AA262908, AA436140, AI038304, AI754567, AI569100, AW192599, AI755214, AA508809, AA481811, AI080307, AA558366, AA664248, AA772016, AA410771, N28624, T56025, AA533054, C16638, AA745373, AA557790, AI754105, AA502991, AW339422, AA302978, AA832025, AA744401, AA612727, AA721560, H78195, AA219069, N67313, AA127222, AI471467, AA668587, AA487569, AA632765, AW007424, AA374240, AW224240, AA972253, AI860423, N63149, AA502568, AA385775, AL583448, AA228824, N70449, AA957523, AI113126, AA584484, H56633, AI469392, AA229490, AA573000, AI819391, AA827383, AA157876, AA947265, AA074143, AA371410, AI252010, AI252880, AA902818, AA642823, AI249365, AA343523, AA714073, AW340905, AW023111, AA654482, AA126814, AA524800, AW073498, AA77381, AI929410, AA775188, AI753672, AA595554, AA503008, H60912, AI869786, N59744, AI762528, AI750950, W04464, AA598605, AA665181, AA046906, AA228979, AA229823, AI459879, AA773171, AA206707, H90878, AA019793, AI267450, AA659048, AA523703, T74259, AC005859, AP000194, AL133448, AP000696, AC005180, AL109798, AP000557, AC005692, AC004887, AL031587, AC000353, AC002375, AF129756, AL133163, AL034420, AC006064, AC005694, AC003108, AL008631, AL050321, AB016897, AC004084, AL022323, AC004492, AP000689, AL035086, AC005513, AC005412, AL109628, Z83826, AF205588, AC002310, AL032821, AC007671, AC005829, AC004466, AL022326, AC005231, AP000704, Z83840, AC007546, AC005014, AC007225, Z989946, AB020868, AC004019, AC006241, AL009179, AC006480, AC004491, AP000555, AC007688, AC005899, AC005399, AC004125, AL035249, AL049776, Z95114, AF064861, AL031287, AC005921, AP000510, AL035685, U95740, AC004531, AF003626, AL109623, AC005562, AC009516, AC005015, AJ003147, AC006948, AC005488, U52112, AL022316, AC006960, AC005529, AL035073, AC007637, AC007666, AC007686, AC004024, AC003983, AP000247, AC005088, AD000092, AC004811, U91323, AC007386, AL031666, AC002316, AL121658, AB023048, AD000092, AC004811, AC004216, AC003982, AL080243, AF053356, AC002301, AC005049, AC005102, AL133312, AC002120, AC002365, AP000514, AC004522, AC005755, Z86090, AF030453, AC005220, AC006571, AC006449, AC008044, Z98050, AC005216, AP000466, AL035415, AF038458, AL135744, AC005837, AJ251973, AC005071, AL034418, AC002563, AC005225, AC004797, AC004626, AP000692, AC007934, AC003086, AC006966, AC005519, AL024508, AC004228, AL109758, AL121754, AL022238, Z95152, AL031984, L78810, AC007687, AC005031, AC006006, AB031151, AC006023, AC007277, AL031123, AC004929, AC004551, AL096791, AL117356, AC006285, U80017, AL008716,

1901

Gene	No.		1-	15-	Accession Numbers
HMMAV35	3162	707274	1-389	15-403	AL023513, AC007263, AC004234, AC005902, AC007226, AL031277, Z98304, AC005291, AC006487, AC006115, Z95115, AC005189, AC006312, AP000688, AC008040, AC004596, AC005484, AC016025, AC005058, AL121652, AL049779, AL022162, AC004967, AL050325, AC005082, AF165926, AC004080, AC016027, AC005050, AL031290, AC006581, AC004816, AC004884, AC005874, AF134471, AC016830, AL034554, AC006946, AF111167, AC007055, AL049869, AC004985, AL049553, AC007488, Z97053, AB020864, AC000025, AC002059, AC008372, AC006130, AC004966, AC007358, AC004000, AC006430, AL049569, AP000212, AP000134, U95739, AC003690, AL122023, AC005233, AC002425, AC005914, AC002558, AF111169, AP000246, Z97054, AP000167, AC004217, Z84469, AR036572, U91328, AC004820, AC005725, AL034548, AL133243, AL035660, AL022336, AP000962, AC005913, AL022318, AC007676, AL133246, AL049692, AL035454, AL020995, AC008115, AC006021, AC006406, AP000030, AL031659, AC004878, and AC006379.
HMMAV74	3163	742642	1-416	15-430	AC003042.
HMMAV85	3164	784221	1-253	15-267	AC000118.
HMMAV91	3165	854043	1-382	15-396	
HMMBD12	3166	866824	1-430	15-444	
HMMBD29	3167	935775	1-501	15-515	AA614263, AW195898, AW080413, AI300810, AA525318, AA767276, AA345400, AI942316, AA426571, AI039672, F33785, R02571, AI032037, AL046094, AA554430, AA830936, AA528234, AA644545, F18098, H58588, U91321, AC005781, AL022310, AC004834, AC004762, AC005265, AC008044, AF053356, Z83849, AF118808, AC007327, AC005620, AC004143, AC004878, AC005034, AC004084, AC008009, AL024509, AC002287, AC006043, U52112, AC006275, AL031864, AI096791, AC005089, AL034420, AC007057, AC006449, AC005899, Z82178, AL033403, AC002300, AC006238, AC005666, AC003010, AL080243, AC006450, AC004787, AC002302, AJ229041, Z99774, AC002420, AL034417, AL009174, AL049780, AC006530, AC002390, AC005874, and AF134471.
HMMBD33	3168	702222	1-404	15-418	
HMMBD79	3169	490057	1-349	15-363	
HMMBD81	3170	728362	1-338	15-352	
HMMBH76	3171	959722	1-351	15-365	
HMMBI50	3172	868199	1-390	15-404	AI469003, and AL049776.
HMMBJ26	3173	681407	1-459	15-473	AC004963, and U95740.
HMMBJ31	3174	697735	1-457	15-471	AA635985, AI378817, AA628245, T60029, T59956, and AC004985.
HMMBM13	3175	577508	1-392	15-406	
HMMBM2	3176	676996	1-499	15-513	H64058, H51675, AA424943, AA424944, AA873400, and H64008.

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HMMBM3 1	3177	855965	1 - 525	15 - 539	H92819, and AC005288.
HMMBM5 4	3178	729350	1 - 406	15 - 420	AL044245, AW438555, AI702314, H60864, and AC005971.
HMMBM7 7	3179	771979	1 - 450	15 - 464	
HMMBO43	3180	657400	1 - 365	15 - 379	
HMMBO46	3181	856831	1 - 476	15 - 490	AW006407.
HMMBP10	3182	964268	1 - 359	15 - 373	N83608, and AI127217.
HMMBP22	3183	674272	1 - 346	15 - 360	
HMMBP27	3184	682856	1 - 546	15 - 560	R71573, R71574, and AC008039.
HMMBQ48	3185	721466	1 - 385	15 - 399	Z84483.
HMMBR33	3186	702221	1 - 537	15 - 551	R72392, H86264, H86301, AA831388, AI264743, AA229650, AA229931, AA230119, AI125139, W07122, AI499094, AW069807, AA493508, AA229814, AW074398, AA558697, N71724, AI216799, AA714595, AI281754, AA484148, AI561335, AI355206, AA947370, AA377730, R08190, F32705, AA654968, AI474085, AI358501, AA652057, AA649642, AW169537, AW438916, AI041733, AA664770, AI610607, AI281881, AA743972, F28776, AI061296, H85616, AW023511, AA584581, AA528520, AI537185, AW193609, AW238016, AI963720, AI886176, AW069427, AI110770, AI887483, AA680299, AI818620, AA515435, AL037554, AI963095, AI610159, AA125788, AI744739, AI884487, AA569187, AI676218, AI648558, F35113, F36273, W60516, AA733208, AI312149, AA741474, AA578141, M78150, AI284640, N27353, AI287528, AW274345, AA358122, M62249, AI061334, F37223, AI435544, AI061227, AI610491, F19258, F31799, T47739, AW089789, AI143242, AA386111, AW023389, AA100915, AW236342, AW196798, F34558, AL046409, AA836811, AI567975, AA166721, AA664535, AA630362, F37169, AA720702, AI832577, AA457592, AL036523, AI761471, AA095511, AA598586, AA743177, AA569193, AI928790, AI205126, AI079809, N25296, AW406659, AA919037, AI469624, AW410116, AW088058, AI628288, AL120269, AW085740, AW276827, AI350211, F29702, AA775230, AW008317, T16592, AA744220, AI286264, AW243960, AA664407, AI633479, AA640979, AI732186, AA317170, AW193500, AI829964, AA916039, AA654627, AA736472, AI879000, AI612032, AW086257, AA659083, AA394271, AI963786, AA084070, W95976, AI830390, AA484262, C75026, AI200051, AI053672, W95841, AI151261, AA977743, AI040913, AL041412, T40338, AB12309, AI471534, AL133862, AI683577, F31204, AW173651, AA342901, AL119484, AA127354, AI017415, AA491762, AW406447, AW268231, AA284179, AL041368, AW265393, AI557323, AA130647, AA747480, AI493546, AI914913, AA448858, AW072587, AA663482, AI354426, AI471481, AI246409, AI005388, AW193295, F28576, AL119123, F32894, AI282336,

HMMBR77	3187	855942	1 - 460	15 - 474	AI924251, AI913017, AA368745, AA601270, AA658846, AW316969, AA557879, AI038990, AI569086, AA342958, AA533333, AW131249, AW029038, AA075754, AI287651, AI076616, AA847216, AA456976, AW193512, AA338522, AA938546, AA629419, AI801591, AI754955, AW408161, AI206785, AI733304, AI654588, AL031009, AL023582, AC006515, AL133245, AL080239, I51997, AC006285, AC006241, AL035587, AC005385, AC005993, AL031280, AC002398, AC004992, AC004028, AC016025, Z49816, AC003070, Z97634, AC006237, AC005754, Z92540, AC008072, AL022324, AC005939, AC003998, AC008124, AL023799, AP000556, AP000552, AC009516, AC004967, AC006374, M87919, AL020996, AL080238, AC004672, AC005193, AC005086, AC006060, AC006013, AF023840, AC003965, AC004151, AL021579, AC004848, AC006045, AP001035, M87918, AC005072, AL034402, AC006019, AC001234, AC004961, AC004614, AC005668, AL031721, AC005777, AL033521, AL050350, AL034554, AL133304, AC005225, AC007051, AC005209, AC007919, AC005879, U18396, Z80899, Z49236, Z95329, Y18000, AC005011, AC004882, AF060568, AJ003147, AC005529, AL008734, AC000118, AP000557, AC007773, AC009399, AR060470, AB029343, U29953, AB023059, AL031709, AF025422, AC000021, AC004195, AF164343, AP000509, AL035659, AL033377, AC005094, AL033403, AC004890, X06123, AC004257, AL031777, AC007242, AC010072, AC007262, AE000660, X60653, X61109, X55925, AC006476, AF108083, AC004087, AL078474, AL031224, AC004583, AC005007, AC005486, AC007227, AC009721, AC003992, AC007298, AC007225, AL049830, L48477, L48476, AC002347, Z82901, AC004042, AC002564, AC003087, AL021393, Z95113, AL078603, AC002064, AL031347, AF006752, AL050315, Z83840, AC007429, AC006116, AC004098, AC007065, AC007563, AC005358, AL021068, Z82204, Z68881, Z94865, L48038, AC003080, AC008122, AL022578, AL021878, AC000026, AC004841, AC007388, AC002059, AC006322, AC005412, AC004019, AB014079, AF027390, AC004993, AD000833, AC005602, AC000080, AC007536, AL049736, AC005350, AC002316, S70707, AL049562, AF038458, AP000080, AL078581, AC005663, AC002301, AL021155, AF188024, AC002072, AC003051, AL035417, AC005138, AC005969, AC006354, AC005940, AC005043, AC004049, AC003080, AC005815, AC006487, AC007537, AC005971, AC005954, D26067, AF154840, AC000403, AP000297, AF015725, AF129107, AF176915, AL031058, U92032, AC005303, AP000159, AP000018, AP000044, AP000112, AC005049, AP000345, Z73986, AL031668, AC011421, AP000346, AC004990, AL122003, AC007486, Z49235, AC006139, AC006958, Z98752, AC005923, AF045555, AP000514, Z95704, AC007324, AC008101, AC005410, AC016830, U18399, AF119358, X80393, AC004797, AC005328, AC006128, AC004224, AC004752, AP000156, AC004217, AL031276, AC007690, AC005249, AC005495, AP000014, and AL022323.
HMMBR91	3188	757047	1 - 465	15 - 479	AW151657, AA782334, and AC005295. AL121852.

HMMBR92	3189	791274	1 - 330	15 - 344	AL135643, F13749, AI302242, AI753365, AI751162, AW162288, R92640, AI687206, AA947837, AI696793, AW383952, H91844, AA745337, F27015, AA650613, AL046746, F33138, AW381821, AA747889, H48546, M78021, AI628224, AI493264, AA779783, AI287921, AI783911, AA714073, AA457754, AW271917, AI927275, AA626829, AA569065, AA262752, AI570943, AI377413, AI357551, AW161636, AA811580, T05319, AW118529, AA339487, AA879053, T03412, AW167154, AA574286, AA558003, AA745356, AA132530, AA613627, AI859280, AA680243, T69679, T03203, AC003688, Z99943, AP000692, AL096818, AC007030, AC006101, AC007993, AC005288, AC004408, Z85986, U29953, AC005971, AP001054, AL022328, AC007536, AC005914, AF015720, AB023049, AC006057, AP000512, AC002072, AL133243, AC002425, AC005746, AC005211, AL031279, AC003035, AC005189, AC005356, AL031297, AC007684, AJ229041, AL022316, Z98750, AC006273, AL049869, AP000208, AP000130, Z97195, AC006211, AC004622, AL034548, AL034555, AL033517, AL096763, AC005274, AC006064, AC005740, AP000247, AC018767, AP000553, AC007227, AL031055, Z98884, AC004796, AL035587, AL049712, AF196969, AC006257, AC004216, AP000557, AL034419, AC004750, AL023803, AC005839, AL049776, AC004552, AC005599, AC005899, AC003957, AC004647, AC005104, AC006538, AC004975, AC004999, AC005284, Z86090, AL021397, AC006050, AC004983, Z98200, AC005874, AF134471, U73023, AC005178, Z93244, AC007735, AC000385, AC006581, M87889, AP000045, AF031078, AL031599, AC002302, AC005363, AC005606, AC004477, AF030876, AL121655, AC000026, AC002059, AL031670, AC007250, AC000113, AL031584, AL132985, AC007114, AL080243, AL034409, AC005254, U47924, AC004595, AC005225, AL079305, U91321, AC007263, L48476, AF037222, AC004042, AL021807, AL050402, Z82214, Z84487, AL031778, AC005220, AC008394, AC007277, U50871, Z69917, U73641, AC002558, Z85987, AL031311, AL117536, AL021395, L47234, AL050341, AL133448, AB014077, AC005330, AC004209, AC006139, U62293, U63721, AC005057, AP000514, AL022163, AL096791, AC006120, AC000114, AL049829, AC003664, AC004019, AC004150, AL117340, L44140, AF002223, AL033397, AF190465, AL022151, AC002527, AC005280, AC004895, L06849, AC004913, AF124730, AF124731, AF020803, AL049867, AP000694, Z95703, AC004066, AC005270, AC005520, AC005940, AC007630, AL049834, AC006511, AC003101, AL133163, AL132987, AF045555, AL034379, AC004099, AC002377, AC007011, AC005081, AC000052, AC006449, AC004966, AL035659, AC006312, AC004813, AL021394, AL033521, AL035415, and AL035603.
HMMBS41	3190	711733	1 - 296	15 - 310	F33940, and AL035652.
HMMBS61	3191	741656	1 - 403	15 - 417	T70715, and Z92846.
HMMBT27	3192	682325	1 - 324	15 - 338	
HMMBU27	3193	716049	1 - 545	15 - 559	AI446464, AA513181, AA513141, AA441788, AI064864, AI469172, AA715270, AI133164, AI754955, AI569086, F28576, R77905, AA136004, AA340747, AA634911, AA649642, AW072923, AA525127, AI049722, AI284640, AA747472, AA618141, AI246796, AW021583,

AL041706, AA985038, AW419262, H61887, AA515751, AW238278, AL046409, AW238016,
AA306732, AA377730, AA715362, AA604607, AA491762, AI921296, AI357551, F33566,
AA557686, AI590689, AI590958, AI053672, AF150152, AW440976, AI452599, AW236342,
AA327323, AW088224, AI824562, AW084253, AA669522, AI434695, AI929531, AI354426,
F37169, AI281881, H56013, T08638, AW088058, T40077, AW193546, AI709365, AA483034,
AA669251, F18638, AI264743, F33121, AI350211, AA528553, AI079910, AI287651, AW341892,
F23279, AA747480, AA657533, AW276827, H70615, AA357987, AA598997, AI085719,
AI287964, AW338508, AW302013, AI379719, AW131034, AL041513, AA101719, AI198376,
AA977743, AW276435, AI341664, AI688846, AI648558, AW162049, AW193265, AI434311,
T53607, AI312149, AI633168, AA507786, AL043721, AA714453, AA664407, AA598464,
F36273, AW408161, AA469451, AW080134, F26152, AW303196, AI286264, AI583594, AL038474,
AW407578, AW274349, AI537955, T41242, AI697353, AI590772, AI284595, AA551575,
AW265253, AI471481, AI937850, AI291124, AW088202, AI358501, AW406162, AA338522,
F28776, AA358122, AA610786, AA501722, AW168342, AI364809, AA664535, T47588, AW402118,
AI291268, AW193432, W79504, AI612280, AI364809, AA664809, AL079645, AA838140, AA502155,
AA146625, AW072587, AA720702, AW338086, AL537030, AL079645, AA838140, AA502155,
AI801591, AA350859, AA317170, AW089322, AI921541, AA244415, AA644666, AW301350, T07287,
AI653886, AA381147, AI144330, AA680299, AA244415, AA715609, AA827981, AW022379,
AA177061, F25867, AI431303, AA593752, AW392595, AI079809, T07324, F23327, AI307201,
AL119750, Z78385, AW406447, AW270270, AA947370, AI334443, AA515435, AI281903,
AA586458, AL042856, F03525, AI205126, F34498, AA654741, AA515051, AI830390, AI890923,
T06556, AL043756, AW162489, AI962050, AI312309, AW023270, AA364224, T40617,
AI266133, AA176924, AI148277, W95976, AI279165, AL041733, H58635, AA605274,
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AA323749, AC005019, M87918, AC007842, AC005684, AC005919, AL035685, AL031587,
AL035413, AF053356, S42655, AL031734, M87919, M87891, L81583, AF090944, AC004039,
AC009330, Z98304, AC007551, AL049829, AC005330, AC007114, AL132716, AC005091,
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AL008718, AL033392, Z95331, AP000302, AP000114, AP000046, AC006476, AC004993,
AL031255, AC007537, AC005013, AL031005, Z98043, AF091512, AL133546, AC005180,
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AL133448, AC006012, AC006991, AF064863, U44395, AL110502, AC004495, AC004550, AL078613,
AL109963, AL033527, AC006241, U44395, AC000003, AP000697, AC005939, AC016026, AC005237,
AC004066, AC007151, AC005018, AC000041, AC000003, AP000697, AC005939, AC016026, AC005237,

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HMMBU75	3194	1 - 350	490083	15 - 364	AC006987.
HMMBU78	3195	1 - 696	773426	15 - 710	W02201, H78487, and H78389.
HMMBV17	3196	1 - 463	662684	15 - 477	AI792272, AL121235, AI954248, AA018823, AI698342, AA654781, AI866487, AA730798, AI471887, W24602, AI470646, AI468899, AA679936, AL138455, AI312309, AA478355, AI732120, AW085780, AA680243, AI049508, AW089101, AW003867, AI088768, AA533333, AA279365, AI366993, AA012964, T03217, AI950983, AA640410, AA640430, AI754336, AW023302, AI611895, AA088727, AW275498, AA515644, AA746719, AI358384, AL041146, AL138396, AI431303, T61978, AI753929, AL119649, AA833896, AA833875, AI791913, AI792133, AI821714, AI821044, AA081462, AA876445, AL037574, AA099939, AL046519, AI816141, AL079637, AL040921, AA228349, AL036413, AW022065, AL044441, AI042311, AA847952, AA729697, AA634853, AL036037, AA601876, AA483256, AA582549, AW263415, AI873852, AW380254, AI633479, AI732151, AI828710, AA774059, AI457397, AA515440, AL121207, AL046457, AA493136, AI754567, AI754105, AI755214, AA570602, AA303007, AI124610, AL134519, AI680562, AI886654, AL134972, N99489, T09124, AI609464, AA478866, AW022406, AI754253, AA588001, AW327868, AI499451, AI691091, AI524515, AI635217, AF034176, N49368, T60156, AI572924, AI991323, AI630176, AL119306, AA503039, AA618452, R17793, AA516058, AW168383, H72530, W20344, F05324, AI862939, AA493708, AW028429, C16438, AA916171, AA358515, R94326, T73699, W52505, AI821785, AL118991, AA377385, M77938, AI079389, AL042635, AI751216, AI446682, AW410354, AA478867, AA551552,

HMMBV53	3197	727572	1 - 201	15 - 215	C06339, AI700109, AA846952, AL037550, AI675305, AA449594, AW103676, AC005358, AC005587, AL022163, AC004813, AL021154, AP000354, AC004821, AC005484, AL031575, AC009263, AC005145, AL031722, U82696, AC003006, AL031677, AC004000, L78810, AL049845, AC005065, AC006388, AL133245, L30117, AC001082, AC002300, AC004812, AC005971, AC007308, AC002483, Z94277, AC007011, AP000476, AL021328, AL031123, AC007225, AL080248, AL034423, AL030999, AL109963, AL023653, AP000569, AC002368, AC004819, AC002553, AC007172, AP000350, AC004895, AL031650, AC002429, U82083, AL109837, AP000689, AC007738, AC006254, AL117328, AC003104, AL049759, Z99496, AC006203, AC007358, AC005903, AC004836, AC003025, AC004991, AC004466, AF139813, AC004228, AL049823, AL008629, AP000656, AC002404, AC003964, AC010209, AL031296, AL008634, AL049779, AP000349, Z98752, AC002996, AL031584, AC006537, AC007002, AL121882, AL020997, AC005544, AL035089, AC008372, AC006040, AC007462, AC004492, AC002385, AC004471, L77570, AL049776, AC004673, AC007655, AL109865, AC004196, AC004796, AJ009632, AL021937, AC004019, AC007371, AC005071, AF002223, Z73420, AC005234, AL034345, AC006468, AP001050, AP000070, AC007590, AC002115, AC005102, AL035683, AB023049, Z74739, AC004525, AC002303, AC005550, Z82201, AL031657, AL035688, AC005527, AC003669, Z98884, U96629, AF196779, AC006271, AL031775, AC004622, AC005951, AC005908, AF001549, U85196, AF164623, AL031257, U07562, AL035634, AF019664, AC004633, AP000359, AC004595, AC005682, AC007649, AC006430, AC005004, AC010168, AC008637, AC007444, AC004864, AC004519, AC007304, AC005348, AL118512, AP000201, AL023805, AP000097, Z97181, AC004691, AC005519, AP000556, AC007262, AC006050, AP001037, AP000240, AC006160, AL049775, AL022323, AC005209, AL049829, AL096712, AC004263, AC004841, Z86061, L07900, AC002347, D14436, AF048728, AC002082, Z81314, AC006146, AL022312, AL031295, AL049692, AC004822, Z98941, AL021808, AC007784, AC004675, AL133353, AL049869, AC000025, X55933, AF222686, AL021808, AC007784, AC004675, AL133353, AL049869, AC000025, AP000297, Z68226, Z98047, AL034421, AP000044, AP000112, AC004087, AC008163, AP000697, AC007110, AC002452, Z98048, X55924, AL022329, X54180, AL117354, AJ003147, AL031054, AR036572, U91328, AC004950, X63773, and AE000660.
HMMBV71	3198	490078	1 - 369	15 - 383	T73734.
HMMBX63	3199	729268	1 - 313	15 - 327	AA905066, AA767350, AI696646, H71659, Z98036, AL109758, AC005914, AF111168, AC002425, AC005072, and AC004551.
HMMBZ91	3200	753799	1 - 411	15 - 425	AC005877.
HMMCA43	3201	715085	1 - 434	15 - 448	
HMMCB67	3202	735293	1 - 755	15 - 769	R10827, AA165653, AA678092, AA165550, and Z95152.
HMMCC09	3203	625368	1 - 468	15 - 482	W27527.

HMMCD21	3204	670651	1 - 182	15 - 196	AF067844, and AF143313.
HMMCE16	3205	577388	1 - 283	15 - 297	H71992, AA508364, AA508371, and AI174714.
HMMCE26	3206	935148	1 - 522	15 - 536	
HMMCF94	3207	913661	1 - 485	15 - 499	AA565911, AW238341, AI904445, AI143653, AI192839, AA209436, AI709180, AI251944, AI046818, AW073950, F16409, AW390601, T05617, R19199, AI445557, AW337805, N54397, AI917904, AA337978, AI269639, AA299351, C06329, AA678616, H61871, AI080732, AI619994, AI054090, AA566084, AA502101, AA364315, AA582746, AW373645, H68343, AI926597, N23919, AI633386, AI246061, R89560, H53085, AW057719, AA372799, AT791291, AI791469, AD249365, AI567391, AI732514, AA527109, AT732243, AA658934, AA054055, AI298079, AA610255, AD284543, AA825784, AL138252, AA114131, AL042373, AI254770, AI783820, AI042667, AL042670, AA586433, W96277, AA081770, AA603432, AI571161, AW190484, AI251034, N64437, Z85987, AJ236701, AC005520, AL031685, AC000085, AJ006995, AL034421, AC006241, AC002101, AC005256, AC007363, AC007263, AC003070, AC007114, AL078581, AL031657, AC004491, AC004985, AC007055, AC004526, AC004991, AC002470, AC005324, AC006023, AC004686, AC004687, AL080243, AF053356, AP000692, M26434, U07563, AC005730, AC002351, Z98752, AL022311, AP000359, AF134726, AL031651, AP000350, AC004834, AL034549, AC004383, AC003030, Z97353, AC004583, AC005914, AC006512, AC004859, AC006441, AL031681, AC004796, Z85986, AL035405, AC006251, AL031295, AC002996, AP000228, AL035658, AP000088, Z98050, AC005565, AC004531, AC004858, AC006312, AC005535, AC005920, AP000140, AC002369, AF109907, AC002350, AL021918, AF196969, AC005844, AF165926, AC005993, AC005089, AC002395, AC009516, AC005399, AC005696, AF217403, AC004131, AC005409, AL109827, AC005067, AJ251973, AF001549, D43727, AL034418, AL050308, AC000379, AC005911, AP000126, AP000204, AC002312, AF001552, AL096712, AC004019, AC005049, AL022322, U52112, AC006273, AC005212, AL035086, AF196779, AF111163, AC002504, AC006121, AC000082, L78810, AL031229, AC005837, AC004150, AC006111, AC006277, AL031588, AC006501, U91323, AC003029, AC005071, AL049643, AL031803, AC002407, AL031848, AC005037, AC007225, AL049766, AL049591, AP000244, AL031678, AL034420, AC004884, AL133445, AL021878, AL109758, AL049856, AJ003147, AC006317, U85195, AL049653, AC005206, AC005003, AL079301, AC004223, Z99716, AC005231, AC002994, AL031597, AL049569, D84401, AP000704, AE000658, AL008734, AC005211, AL133163, AC010206, AC004844, AC005328, AF091512, AL031291, AC002426, AL031672, AC000025, AC005203, M29929, Z68323, AC002551, AL035455, AC005924, AL031846, AU022326, AF067844, AF045555, AC006001, AC004953, AC003687, AC000070, AC005667, AC006064, AC005736, U95740, AL035415, AC007388, AC005081, AC006360, AC011625, AL023694, AJ133269, AC009501, AL031123, AL133245, AC004814, AL096701, AC005899, AF207550, AC005529, AC006511, Z98950, Z95115, D87675, AC009405, AC001227, U82828, AP000510, AP000501, Z95152, AC005005,

HMMCH04	3208	944069	1 - 670	15 - 684	AC004912, AC007546, AC005552, AC004967, AL031432, AC007450, AC002365, AL008730, AL031737, AP000008, AC006571, AC007021, AL122020, AL033527, D87012, AC006126, Z75887, Z93244, AL049780, Z97053, AL121769, AC009263, U91321, AC002404, AC007308, Z68164, AL049843, AL121603, AC004020, and AC005940. AI049671, AI034206, AW192002, AA442431, T59937, AW069110, AI678812, AA515742, AI679394, AI925423, AI679902, AI523205, AA676592, AA642809, AW392414, AA362349, T07903, AII23488, AA946848, AI471455, N63358, AI687343, AI206078, AW079877, AW270329, AA362348, AA640310, T03576, U48471, AC005940, AL020997, Z94801, AC006088, AC004849, AL121658, AC006064, AC005003, M33132, AC004589, AC004645, AL080242, AL117328, AC003077, AP000514, AC003007, AC004895, AL121769, AC006111, AC005632, D84394, AC005696, Z99943, AP000354, AL109952, AL049757, AC004148, AL031281, AL035457, AC005089, AC007312, AC000353, AC005837, AL035413, AC004686, AF030933, AC005412, M17262, AC002050, AC005944, AL133382, AC006251, AC003689, AC006455, AF030933, AF045555, M17262, AC002050, AC005944, AL034553, AC006251, AC003689, AC006455, AL109963, AF045555, AL022322, AL022162, Z99129, AP001053, AJ010770, AC005081, AC006536, AL031770, AP010770, AC005274, AC005015, AC002546, AL035588, AL080317, AL031311, AC005358, AC005746, AC005274, AC005015, AF064859, AC003950, AL022069, AC006141, AC007565, AL035422, AC003108, U78027, Z98051, U07563, AF064859, AC003950, AL022069, AC006141, AC007066, Z93930, AP000694, AC018633, AP000113, AC004841, AC003950, AL022162, AC009399, AC005365, AC007066, Z93930, AP000694, AC018633, U01337, Z84466, AL109623, AC005763, AC004035, AC004996, AL008635, AC005362, Z49237, AC000069, AL096703, AC003080, AC007421, AP000502, AC000120, AC007076, AC004984, AL122020, AL024508, AC006226, AC004638, AC004585, AL121757, AC007376, AC007917, AL049835, AC006057, AL049779, AF029308, AC005225, AL121757, AC002115, AL132987, AL031587, AC001231, AP000511, AC009501, AL023553, AL021707, X99832, AC003029, and U80017.
HMMCI03	3209	923771	1 - 385	15 - 399	
HMMCI43	3210	864098	1 - 430	15 - 444	H60700, AA465255, AA984765, R51650, N31773, R93782, AI265884, N56201, and AF151819.
HMMCI67	3211	587819	1 - 479	15 - 493	
HMMCJ83	3212	855918	1 - 425	15 - 439	AC002302.
HMMCJ93	3213	708060	1 - 661	15 - 675	
HMMCK81	3214	666792	1 - 346	15 - 360	AC007165.
HMMCN36	3215	919484	1 - 463	15 - 477	
HMOAC95	3216	677110	1 - 206	15 - 220	
HMPAA21	3217	670114	1 - 546	15 - 560	N59555, AA362113, and AA362136.
HMPAE62	3218	754152	1 - 270	15 - 284	AA362224.
HMPAP52	3219	709621	1 - 264	15 - 278	

HMPBA34	3220	1 - 450	705509	15 - 464	AA362267, AA362266, AF017104, and AC016831.
HMPBB11	3221	1 - 318	855911	15 - 332	AA362334.
HMPTA49	3222	1 - 324	723299	15 - 338	
HMPTE27	3223	1 - 394	684607	15 - 408	
HMPTG84	3224	1 - 491	954383	15 - 505	AC002112.
HMPTI69	3225	1 - 355	932799	15 - 369	
HMQAB40	3226	1 - 485	712805	15 - 499	AI523941, AA055449, AA232904, AA233033, and AA055448.
HMQAG45	3227	1 - 347	723493	15 - 361	
HMQAL95	3228	1 - 307	684917	15 - 321	
HMQAO34	3229	1 - 250	706341	15 - 264	
HMQAP31	3230	1 - 208	825480	15 - 222	AW044231, and AC003681.
HMQAS25	3231	1 - 469	923515	15 - 483	
HMQAU20	3232	1 - 359	384780	15 - 373	T87899.
HMQAX65	3233	1 - 295	856318	15 - 309	AL021453.
HMQBD30	3234	1 - 352	714031	15 - 366	AA933089, AI680336, AW157317, AA523285, AW170427, AA974441, AI027987, AI074894, AA102451, AI631081, AI591067, AI992135, AA643152, AI357176, AA577581, AA148225, AI031764, AW166779, AI857843, AI027266, AI568168, AA862399, AA205564, AI923284, AI951177, AI185759, AI924241, AW193281, AA779812, AI280897, AI928891, AI580036, AA824336, AA523194, AI208491, AW162293, AA417116, AA512937, AA166670, AII38933, AA410871, AA843221, AA497015, AI090410, AW327970, AI366939, AI891047, AI372093, AA417257, AA776942, AI083704, AA776511, AA580420, AA860537, AA716753, AI094406, AA827004, AI817572, AI027989, AI673583, AI276716, AI245211, AI986389, AI073857, AA595784, AI816482, AI751720, AI439302, AA976926, AA771950, AA088664, AI520873, AA813071, AA458901, AA878692, AI252636, AI039067, AA860792, AA399535, AA722780, AI538971, AA971121, AA995822, AA722354, AA480057, AI887538, N24774, AI282434, AA625734, AA968695, W31392, F33205, AA292590, C05840, R53540, AI439351, AA428428, W15347, AA757714, AI192786, AI929797, AI085365, AI439295, AA971044, W95395, AA923667, AW162981, AW161746, AA383387, AA158971, AI073973, H92319, AA156280, AA890640, AA581636, AA158959, AA640130, N32793, H17478, AA130481, AA907137, AA130482, H29049, T58022, AA886217, AW172803, AI761395, AA235711, F36843, AA488204, AA284912, AA426152, AA643884, AW250923, F17431, R49138, AW130002, F33987, AW148600, AI004901, AI566499, AI751319, AI869823, AA662261, AA643919, AA505425, AA669508, AI537266, AA587451, AA477813, AI885826, T86930, AA374990, R17686, AA397788, N94618, AA296827, AA553934, AA158603, AA459096, AA235724, AA402833, F03779, AA635762, AA877354, F02931, AI886255, AI768303, AW068766, AI369668, AA421441, AA410723, AA402684, AA969529, AA852879, AI309009, AA402130,

HMQBH12	3235	1 - 250	15 - 264	AA421351, AA421619, AA410870, AW375304, AW175934, AI814213, AA625735, AW163631, AL045635, AW075260, AW327969, AA401998, AA411213, F01865, AA299729, AA146597, AA428874, F04770, AA664466, AA662445, AA284999, AA404572, AA351185, F11009, AW298320, AI800313, AJ131182, AR033742, AJ249366, AC005197, X76980, Z32554, and U89427.
HMQBL13	3236	1 - 397	15 - 411	AI800901, AI651852, AI654079, AI500417, and AL008730.
HMQBL17	3237	1 - 266	15 - 280	
HMQBL54	3238	1 - 292	15 - 306	AA809189, AC005280, AL110150, J03818, and AC002115.
HMQBM27	3239	1 - 265	15 - 279	AI373509, AW015352, AW131241, and AI500443.
HMQBM59	3240	1 - 332	15 - 346	
HMQBN41	3241	1 - 249	15 - 263	AC005994.
HMQBO17	3242	1 - 306	15 - 320	
HMQBP18	3243	1 - 356	15 - 370	AW369276, AF199364, and AC004893.
HMQBP26	3244	1 - 297	15 - 311	W79802, and AA773227.
HMQBP54	3245	1 - 321	15 - 335	
HMQBT65	3246	1 - 294	15 - 308	AI887232, and T78614.
HMQBU96	3247	1 - 404	15 - 418	AA453179, R71855, AA043907, F07759, AW248202, AA302385, AL047640, AA284122, H18360, H19959, H20698, H21242, AA434198, H46841, AA292979, AW247172, D52938, AA131344, AA203288, Z45125, H85906, AA017593, R81429, AW381812, AW392072, T19067, R55922, AA306741, AW381820, AW381788, T32135, R48687, W93644, D56251, AA308717, R59408, AA017424, R61099, H08032, R19873, AA321261, AA069353, AA410846, AA843927, W93904, AA984067, AA477522, AA523404, AA582827, AI885457, AA861765, and AC005067.
HMQBW05	3248	1 - 146	15 - 160	
HMQBW76	3249	1 - 204	15 - 218	AA381112, T29768, and AA381110.
HMQBX07	3250	1 - 255	15 - 269	
HMQBX35	3251	1 - 353	15 - 367	
HMQBX74	3252	1 - 122	15 - 136	
HMQBY10	3253	1 - 404	15 - 418	
HMQBY34	3254	1 - 119	15 - 133	
HMQCC67	3255	1 - 304	15 - 318	
HMQCK09	3256	1 - 192	15 - 206	
HMQCO77	3257	1 - 359	15 - 373	AI910103.
HMQCV51	3258	1 - 346	15 - 360	
HMQDA84	3259	1 - 243	15 - 257	
HMQDC34	3260	1 - 335	15 - 349	N99626.

HMQDC96	3261	765810	1 - 298	15 - 312	Z97989.
HMQDD41	3262	575536	1 - 347	15 - 361	
HMQDE85	3263	963366	1 - 333	15 - 347	
HMQDN16	3264	712588	1 - 343	15 - 357	AC005576, AF117947, and U77631.
HMQDN77	3265	772436	1 - 406	15 - 420	
HMQDQ84	3266	783176	1 - 419	15 - 433	AA630827.
HMQDZ19	3267	940694	1 - 155	15 - 169	
HMRAD49	3268	868185	1 - 398	15 - 412	H13140, AA613909, AL031594, AL031274, and AP000696.
HMRAD74	3269	765975	1 - 560	15 - 574	H72232, AA650447, AA713724, AI678754, AA001345, AC004805, U91318, AC003663, AP000466, AL021578, AL109946, AC004832, AC005911, Y10196, AC007546, AC005225, AC007993, AL049843, AC005778, AP001052, AC007057, AC004685, AC004967, AC005081, AL034417, AF031078, AF030876, Z98304, and AL031602.
HMSAC03	3270	960949	1 - 401	15 - 415	
HMSAH89	3271	935429	1 - 470	15 - 484	N35693, AA312724, AI915293, AA381762, H54210, AA347927, H71250, AI460103, AA593471, AA347930, AI623563, AI270476, AA601986, AA487219, AI076236, AI338426, AA487079, AW383952, R92301, AA358623, AA634209, F33138, AA604843, AI305258, AI090334, AI791150, R70883, AA372778, R70884, AA599423, AA573213, AA761795, AI803809, AA702618, R90740, AA526757, AA650135, AA341228, AA367788, AL046746, AW265688, H80203, AA828867, AA614010, AI284108, AI888405, AA939320, AA828047, AA781504, H85059, AI471572, AW264264, H40017, AA551339, AI096403, AA347565, AW407919, Z99496, AP000493, AL031431, AP000964, AC003689, AC000118, AL030689, AC006270, AL022323, AL078477, AC008101, AC016027, AC016830, AJ250915, AL096702, AC009275, AC002558, AL080243, AL020996, Z49237, AC003663, AC005209, AC008079, Z93023, AC002350, AC007686, AC002106, AC006080, AC005914, AC007784, AJ010597, AL034449, AC004890, AC007057, AL049872, AL034418, AL031735, AC007435, AC005193, AC002045, Z82215, AL035703, AL049780, AC006530, AC000095, AC005512, AC007436, AP000336, AL049540, AP000215, AP000475, AC006211, AC008154, U91321, Z49194, AF008243, AB015355, AC006602, AC004934, AC004525, AC007136, AL034555, AL035653, AC005874, AF134471, AC005081, AC005229, AC001228, AL121595, AC004865, AC006117, AC005257, AC006261, Z68756, AC005944, AC004685, AL096701, AC000052, X87344, AL049830, AC004019, AF003626, U78027, AL049709, AL022313, AC002073, AL035422, AL109837, AC004859, AL121576, AL032821, AC006501, AC008122, AC004061, AC010205, AC004196, AL031055, AC005295, AL020997, AC005409, AL035443, AC007277, AL035415, AL117258, AC005832, AL139054, AC005330, AC005778, AL021397, AC006973, AL031681, AC005725, AC005476, M90058, AC002398, AC003041, AC002996, AC005399, AC005242, AC008928, AC007993, AC007546, AC009363, AL121655, AF111167, AC000134, AL109627, AC005726, AL008718, AC005921, AL096791, AC008009, AC006487, AC006480, U29953, AC002057, U82668,

HMSAI08	3272	960482	1 - 372	15 - 386	AF165176, AC004638, AC005177, AL022345, AL022165, AC007386, AC006449, AP000018, AP000160, U73649, AC000092, AC005581, AC003109, Z97630, AL049610, AC005905, AL022397, AL034379, AC002039, AL023803, AC005041, AF029308, AC005003, AP000339, AC003006, AP000217, AC006515, AC005225, AC004185, Z93848, AP000152, AP000011, AP000509, D87009, AL109839, AL031447, Z97056, AL121652, D84394, AC006271, AP000962, AC005037, Z99943, AC002553, Z98884, AL022239, Z82184, AC005513, AL121825, AC004985, AL034402, AC004594, AC005261, Z68164, AC004257, AC000015, AL008725, AC003077, AP000502, AC006597, Z95113, AF207550, AL021707, AL121877, AF134726, L47234, AC005342, AC007773, AL031729, AC007695, AP001059, and AP001058.
HMSAI44	3273	715726	1 - 363	15 - 377	AC007401.
HMSAO46	3274	720686	1 - 408	15 - 422	AW452096, AW450553, AI887415, AL042654, AW295630, and AL035405.
HMSAP87	3275	383902	1 - 341	15 - 355	
HMSAQ64	3276	747120	1 - 374	15 - 388	W38562.
HMSAS62	3277	754156	1 - 373	15 - 387	
HMSAX08	3278	960446	1 - 448	15 - 462	
HMSAX13	3279	961032	1 - 352	15 - 366	
HMSAX31	3280	698439	1 - 365	15 - 379	
HMSAX32	3281	702992	1 - 345	15 - 359	
HMSAX33	3282	727443	1 - 451	15 - 465	F24792, H77666, AA594145, AC005971, AC004491, AC003663, AC019014, AL133245, Z95703, and AC005602.
HMSAX85	3283	953708	1 - 317	15 - 331	
HMSAZ07	3284	855878	1 - 186	15 - 200	
HMSBB19	3285	707489	1 - 560	15 - 574	AI910889, AI524744, AI347447, R72293, AA765015, AA736789, AA808343, AA865106, AW182983, R71382, R72338, and R70163.
HMSBB44	3286	715738	1 - 339	15 - 353	AB033020.
HMSBF59	3287	722005	1 - 416	15 - 430	AC004687.
HMSBF84	3288	739001	1 - 235	15 - 249	
HMSBH79	3289	683595	1 - 296	15 - 310	AL035073, and AC007446.
HMSBI72	3290	925288	1 - 331	15 - 345	
HMSBM43	3291	510964	1 - 605	15 - 619	AA577706, AI733856, AA315052, AA491941, AA904275, H67155, AA657835, AA664135, AI061313, AL079734, H79591, T74524, T46960, R76686, AA632744, AW271904, AL042667, ALO42670, AW023111, AW069412, AW104161, AA071334, H60813, AI380617, AW265688, AA525423, H07953, AA641651, AI791185, AI056177, AA410788, AI754170, AA555232, AI541154, AA833896, AA833875, N29105, AI560866, N66065, AA595770, AI569401, AA502149, AW265614, AL134330, AL031005, AC007376, AC006071, Z97054, AC005722,

HMSBM81	3292	1 - 339	15 - 353	AC007182, AC006312, L78833, AL050332, AL033397, U91323, AC005696, AC004217, AL031282, Z93930, AL031588, AC004812, AF117829, AC007349, AC004771, AC005839, Z85986, AL008726, AL121603, AP000251, AC002565, AC008072, AC005914, AP000212, AP000134, AP000030, AL031447, AC004895, AF111168, AC007537, AC007308, AC004841, AC005527, AL096703, AC002550, AC004067, AL035249, AC006538, AL049611, AC007536, AC002302, AP000558, AL031228, AL096791, AL109914, AL022165, AC007664, Z84466, AC004797, AL024507, AP000689, AC007052, AC008018, AC005081, AP000043, AP000111, AC004655, AC007421, AL022329, Z84487, Z84469, U95742, AL031281, AC005529, AC002425, AF109907, AC004526, AC005482, AL031657, AL022721, AP000694, AC005412, AC005972, Z82244, AC007216, AC008154, AC006501, AL121658, Z98304, AB023050, AC006121, AC004491, AC006001, AC005089, AP000152, AC002477, AC002400, AP000140, AC005338, AC006006, AP000511, AC005670, U91318, Z73358, AC007637, AC007055, AL008582, AL035086, Z93023, AC016027, AC005082, AL080243, AC004253, AC016830, AC002472, AF031078, AP000011, AC004874, AP000088, AF030876, AC005901, AC009516, AF129756, AL109984, AC004821, AL133244, AP000353, AF196779, Z85996, AL050341, AC004887, AC006531, AC004805, U95740, AC003983, AP000116, AC000025, AC004854, AL080317, AC000052, AL133243, AC007546, AL023575, AL022327, AC004019, AL031311, AC005088, AL139054, AC008009, AC006277, AL049779, Z82176, AL049694, AF196969, AC000090, AL031284, AL031666, AC007684, AC007298, AC005037, AC003108, AC005921, AP000114, Z92546, AL034421, AC005288, Z83846, AC005841, AC006449, AF091512, AL021918, AL133246, AC006509, AC004656, AL008715, AC007371, AL021920, AP000512, AC009405, AP000514, AF024534, AC016025, AL049832, AC005740, AL031733, AC005751, AL121595, AC006946, Z95152, AC006014, AC007057, AP001053, AC002070, Z98751, AC005971, AL031055, AP000240, AC005209, AL031120, AC006011, AC005488, AL121769, AP000008, U47924, AC005880, AF064861, Z83844, U96409, AP000552, AL035458, AL031683, AC004590, AL110502, AL031681, AC004955, AC004816, AC002347, AC009248, AC004622, AC005306, AC006236, AJ003147, AC007938, AC007384, AC004148, Z98884, AC006120, AC007406, and AC005913.
HMSBN71	3293	1 - 227	15 - 241	
HMSBO55	3294	1 - 135	15 - 149	AI579937, N47104, AA805339, AA768366, AI078743, AC005774, and Z93019.
HMSBP46	3295	1 - 127	15 - 141	
HMSBP80	3296	1 - 373	15 - 387	
HMSBQ93	3297	1 - 406	15 - 420	
HMSBS51	3298	1 - 348	15 - 362	
HMSBS63	3299	1 - 440	15 - 454	
HMSBS86	3300	1 - 533	15 - 547	AL121998, D83253, Z70689, and Z97054.

HMSBU22	3301	677327	1 - 230	15 - 244	
HMSBU68	3302	709231	1 - 295	15 - 309	AW117257.
HMSBV28	3303	970579	1 - 429	15 - 443	
HMSBX38	3304	761392	1 - 467	15 - 481	R94422.
HMSBX59	3305	558203	1 - 291	15 - 305	AI621141, AA640155, AA569180, AA376315, AI922061, AA664366, AI052560, AA501775, AA280232, AA055576, AA258511, AA487808, AI940701, AI820994, AA593381, AA180278, AW238615, T03028, AA641592, AA601152, AA720812, D59168, T62761, AI132952, T85549, T47477, T47541, N62150, AA353087, R90980, AI800268, AA780549, AA584099, AA225638, N32456, H54464, T03216, H13261, AL117339, AF205588, AL022345, U82828, AL049710, AC005386, AC005018, AF049895, AP000146, AL022576, AC007488, AL121877, AC008929, AC007380, AC004075, AL023581, AC002412, Z82212, AC005297, AC004677, AC005341, AL096827, Z99571, AC004855, AC007567, AC004158, AL022310, Z93019, AC002429, AF172277, AL110505, Z82211, AF003529, AC016046, AC007514, Z83745, AC006481, AL136297, AL022394, U82696, AL117351, AC005076, AL030996, AC000114, AL049844, AL050339, Z92844, AL008722, AC006462, AL049589, AC004470, AC003106, AL080248, U69730, AC002070, AC000378, Z71187, AL022154, AC008169, AC004842, Z98255, AC006946, AC006548, AC009802, AL049743, AC006313, AL050309, AP000083, AC004029, AP000692, AC005378, AC002564, Z74477, AC002463, AC004908, AC002449, AL049778, AC004083, AC004049, AL022101, AL121782, AL121654, AC002454, AL133247, AF070718, AL009047, AC006152, AC011198, AC006070, AC007317, AP000476, AC004047, U66059, AC007243, AC007065, AL109628, AC004161, AL079334, AC000056, AC004451, AC005064, AC004823, Z77249, U72789, AL009028, AC003099, AC003658, AL034370, AC006979, L11910, AC006461, AL031665, AL035252, Z95124, AL080239, AC005201, AL031286, AL031652, AL121757, AC000119, AL133500, AL049838, AC006043, AL031671, AL078588, AL022157, Z82205, AC002524, AC007286, AC005273, AC007032, AC007533, AC007966, AL049834, AC006203, AC006356, U96409, AP000460, AC009308, AC016831, AC005352, AL049696, AC007159, AC006427, AC006840, Z70274, Z71182, Z82210, AC005588, AL023875, AL049734, AC007239, AL035563, AL121823, AC005873, AC006249, AC005034, AC002994, Z82215, AL022150, AL031114, Z69649, AF109076, AC004613, AC004894, AC005516, AC003037, AC006040, AL049874, AC004917, AL009173, Z68280, AL031679, AL035698, AJ239329, AC005498, AC004067, AP000457, AC005050, AC005019, AC006952, AC005593, AC003676, AC002488, AP000547, AL035258, AL136520, AC003973, AC004384, AC034410, AC005739, AL050334, AC005900, AC004617, AL035688, AL121871, AC004615, AL034410, AC006139, AC007007, AC004959, AC000055, AP000514, AL022401, AL096803, AB014078, AC006139, AC007007, AC004959, AC000055, AP000514, AL049634, AL031663, AL033521, AL049557, and AL109941.
HMSBZ269	3306	866997	1 - 757	15 - 771	AA699358, R94584, and AF093097.
HMSCA33	3307	702821	1 - 413	15 - 427	H16746, AI989391, AI651717, AI080151, AA573388, AA927298, AA830295, AA805889,

HMSCB10	3308	968514	1 - 191	15 - 205	Z41058, AI864771, and AA729846.
HMSCD14	3309	924890	1 - 145	15 - 159	
HMSCD15	3310	918133	1 - 1223	15 - 1237	AA828277, AI707568, AI333720, W33154, AI880870, AA848014, AA864599, N50622, AW087770, AW270419, AA761244, AA262754, AA779760, AI880826, AW407353, W37119, AA206843, ZA2584, AA206842, and AB011126.
HMSCD45	3311	707281	1 - 316	15 - 330	
HMSCE07	3312	954242	1 - 430	15 - 444	AB017652.
HMSCE37	3313	524245	1 - 344	15 - 358	AW276877, AI310873, AA359994, AA074342, AI345366, AW190781, AA243530, AA346466, AW438765, AA811208, AI909706, AW082470, AW274078, AA837708, AA527602, AA599558, AL135262, N58329, AA804995, M77893, N71033, AA630854, AA527727, AA908331, N26617, AA372305, AA452325, N72307, AA630145, AA601630, AA654661, AI750865, AL134278, AA804466, AI628303, AI679540, AA427470, AI679978, AI675933, AI540851, AA468223, AL031277, AC007327, AF196972, AC003009, ALO22313, AC006023, AL008725, AL031846, Z93244, AC006312, AP000513, AL022316, AC007546, AL139054, AC006537, AL133245, AL080243, AL022143, AL031120, AC004598, AC006344, ALO34423, Z84486, AC005821, AC005154, AL022336, AC005668, AL023284, AC005546, AL009172, AC005619, AC000379, U95090, AC004821, U08988, AC004913, AP000500, AL109798, AL022476, AL035251, D86998, AC006130, AL020995, AC005042, AC007011, AP000553, AL031681, AC005539, AC009263, AL023575, AL049759, AL035494, AL035090, AC003077, AF165176, U95740, AF008191, Z73359, AC005971, U85195, AL031659, AC004185, AC006047, AC007707, AL023807, AC005179, AF045555, AE000658, AC005175, AC002044, AC007277, AC002312, AL031597, AC009247, AB023051, AC006571, AB023049, AC008101, AL117330, AL121825, AC002563, AL034400, AF139813, AC002288, AC004743, AC006505, AP000030, U91326, AL132708, AC005399, AC004858, AC004152, AC002544, AC002126, AP001053, AC010205, U66698, AB014540, AL022315, AC005081, AC005778, AL049757, Z95115, AC000094, AC005695, AC004560, AF106564, AC005777, AF109907, AC005968, AC005933, AP000509, Z99297, AC007192, AC002316, AL050350, AP000512, AC004234, AC006211, AL023803, AC004583, AC004526, AC001231, AC004885, Z95116, AC006466, AC004491, AC006450, AC005537, AC016025, AC004131, AP000295, AC004106, AC007845, AC002350, AL031985, AL109758, M89651, AF181449, AC005874, AF134471, AC005089, AP000501, Z99127, AC004933, AC007227, AL031290, AC002365, AL096701, AL035405, AC002996, AL034420, X87579, AC004662, AL050307, AP000098, AC005800, AC005379, AC007243, AL031273, AC005542, AL024498, D84394, and AC004659.
HMSCF41	3314	951821	1 - 761	15 - 775	AI523579.
HMSCF54	3315	731011	1 - 354	15 - 368	
HMSCF58	3316	747250	1 - 73	15 - 87	

HMSCI26	3317	530239	1 - 651	15 - 665	AP000334, and AP000173.
HMSCK06	3318	960601	1 - 376	15 - 390	AI610751, AL096706, AC005256, AC005214, AC005145, AL133448, AC005354, AP000533, AC007435, AC005321, AL096774, AC002477, AC005682, AC002314, AL049843, AC002367, Z95152, and AL034369.
HMSCK17	3319	717703	1 - 484	15 - 498	
HMSCK38	3320	967576	1 - 650	15 - 664	Z82195, AF067787, AF067788, AC004257, and AC006511.
HMSCL01	3321	921754	1 - 352	15 - 366	
HMSCM10	3322	926836	1 - 802	15 - 816	AA527731, AI821508, AA532420, and N52655.
HMSCM95	3323	884019	1 - 295	15 - 309	AC004765.
HMSCO18	3324	917009	1 - 439	15 - 453	AL121748.
HMSCO39	3325	709592	1 - 284	15 - 298	AP000496.
HMSCO60	3326	739685	1 - 384	15 - 398	T93243, and AL033518.
HMSCO70	3327	879436	1 - 356	15 - 370	AA018611, AA634223, T99365, AA613954, AI537407, Z98051, AL022320, AL022476, AC006241, AP000556, AC005089, AC000039, AL049694, AC007421, AC004887, AP000045, AC005015, AC004099, AP000557, AP000501, AF064861, AC005081, AC002310, AF047825, AC004841, AC007686, AC007124, AC005971, AC005412, AP000113, AC004854, AL031657, AC005082, AC005527, U91321, AL035422, AC004815, AL050324, AC007868, AL133353, AF134726, AC004263, AC007541, AL022322, AC003982, AC007707, AC005837, AF196969, AL109984, AL121603, AF088219, AF053356, AC005220, AC005702, Z83844, AF038458, AC009247, AC005529, AC005520, U78027, AC006505, AF030876, AE000658, AF031075, AC006130, AC003030, AC005914, AP000300, AL033525, AC003108, AJ229041, AL031846, AC004797, AC005666, AC005207, AP000502, AC006112, AL031273, and AC005409.
HMSCR39	3328	601504	1 - 593	15 - 607	AL138265, AL040921, AL038705, AI872227, AI149478, AW406447, AL046205, AL042853, AA515829, AI801482, AW327868, AI281881, AI334443, AW029038, AW270270, AI924251, AL045053, AA610491, AI133164, AL045526, AI963720, AA210852, AI679782, AL046409, AA469451, AW162049, AW406755, F36273, AI929531, AL120687, AI811687, AI345675, AI358229, AI284640, AI683577, AW276817, AW193265, AW088202, AL044858, AW021583, AI431303, AI904894, C06327, AI962050, AI148277, AW088224, AA526787, AI049722, AA581903, AI339850, AL038785, AT708009, AI350211, C05755, AI608771, AI365988, AA649642, AW088058, AI613280, AW162489, AA587604, AI471534, AA178953, AI345681, AA192740, AI471543, AA468131, AI053790, AA134367, AI281903, AI254615, F29989, AI192631, AI341664, AI661948, AI917271, AA613227, AA577906, AL119691, AI307201, AI061334, AI521323, AI305547, AA826303, AI345654, AA601355, AI688846, AW440836, AI471481, AA523810, AI270117, AA198376, AW439558, AA501784, AI754658, AI358571, AI053606, AW072587, AL038474, AI589230, AI279165, AI005388, AW265009, AI623720, AI298710, AA533725, AI533725...

HMSCR82	3329	806176	1 - 251	15 - 265	AW193432, AA127916, AI375710, AA679124, AL042420, AA483771, AI821714, AI792133, AI791913, F32808, AA521399, AA720702, AW339687, AI085719, AW062724, AA594145, AI160117, AA177061, AA523815, AC005694, AC008372, AC005529, AC006254, AC005527, AC006120, AC005932, AC005274, AC006141, AL020995, AC004477, AC007221, Z83826, AC005280, Z95704, AC007664, AC007666, AL031311, AC006285, AC005288, AC012627, AC005722, AC002470, AL096701, AC005488, U47924, AL031662, AL121603, AP000356, AL050306, AL078593, AC005409, AC000052, AC004531, D84394, AL121754, U85195, Z94721, AL034549, AC005821, AC006511, AL136295, AC006312, AC006077, AC007686, AE000658, U15177, AL049795, AL109628, AL035079, AC006960, AC004854, Z83840, AC005914, AC005566, AL049776, AP000359, Z93930, AC004832, AC007541, AC004796, AC005212, AC009247, AC004878, AC004797, AP000961, AL008629, AC005089, U91322, AC007226, AJ246003, AL050312, AC002350, AL021394, AC004848, AP000302, AL022237, AC005915, AL049569, AL008582, AL033525, AL021877, AL109801, AL022311, AC005772, AF030876, AJ006998, AC006064, AC005829, AL122020, AL133448, AC004841, AP000513, AL031848, AC006116, Z98036, AF111168, AC005874, AF134471, AD000092, AC002430, AC007546, AC005695, AL133246, AL139054, AL121653, AF020803, AL023284, AL035420, AF088219, AC006101, AC004263, AL034429, AL109627, U95742, AF031078, AC006450, AC005913, AC007917, AL049780, AC007384, AC007536, AC005081, AC004999, AC005696, AC002400, AL031284, AC009516, AL022721, AC003664, AC005553, AL049745, AC004887, AP000504, Z98051, AC005180, AP000114, AP000046, AL034423, AL022163, AF129756, AC006111, AL109758, AL049743, AC007064, AC007055, AC007193, AP000555, AC005520, AP000552, AC005666, AL021707, AC005703, AC006449, Z97632, AC005037, AC006026, AC007919, AL021939, AL096791, AC004605, AC005519, AP000558, AC004526, AC006480, AL022323, AC003689, AC004019, AC004972, AB001523, AC005839, AC005902, AP000952, AP000045, AF165926, AC005231, AC000025, AC005899, AC006012, AC004139, AF001549, Z97054, AC020663, AF053356, AC002347, AC004771, AL050331, AC005911, Z98200, AC007051, AL034417, AL008718, Z93241, AC005516, AC007388, AF196779, AC006441, AL021453, AC002395, AC005331, AC007845, AC005291, AP001172, AC005256, AP000553, AL110502, AC005295, AC005663, AC007688, AC006130, AC007052, AJ003147, AL022326, AC007559, Z98950, AC005632, AL133245, AL031283, Z75741, AC004814, AC005372, AC016026, AL031005, AC003043, U66059, AC005562, AC007216, AL031295, AC007731, Z85986, AC003029, AL031286, AP000115, AL121934, AC005701, AC006251, AC007242, AC005971, AC005500, AC005257, Z74739, AL031577, AC005084, AC005901, AC004970, U95090, AL049636, and AC005065.
HMSCU35	3330	725513	1 - 676	15 - 690	AA179771, AA740885, AL042323, and AI017333.
HMSCY29	3331	703105	1 - 345	15 - 359	AI792820, and AI792471.

HMSCY91	3332	789306	1-420	15-434	
HMSCZ51	3333	724839	1-187	15-201	AI052366.
HMSDA03	3334	881563	1-508	15-522	
HMSDB74	3335	765933	1-327	15-341	
HMSDD80	3336	503967	1-910	15-924	N39672, R92235, AI248707, AA682815, AL119721, T91429, T91341, M85784, AA505009, AL045445, W90432, N30473, D79995, AC004495, and AC007151.
HMSDF01	3337	921672	1-303	15-317	
HMSDG77	3338	708078	1-340	15-354	AC004841, and AL031255.
HMSDK32	3339	416928	1-252	15-266	
HMSDM29	3340	703075	1-176	15-190	Z93784.
HMSDP23	3341	583670	1-485	15-499	H59931, H67432, AC005154, AC009784, AC003100, AC003034, AL022154, Z70280, AC003072, and AC006998.
HMSDQ33	3342	702772	1-368	15-382	T41354, AC006123, and AC003107.
HMSDR06	3343	954682	1-272	15-286	AL020995.
HMSDR55	3344	732443	1-335	15-349	
HMSDU43	3345	868183	1-303	15-317	AI243681, AA620742, AA906977, AA610037, and T04923.
HMSDU73	3346	753010	1-136	15-150	AF053755, and AF047033.
HMSDV49	3347	722194	1-343	15-357	
HMSEG37	3348	708656	1-202	15-216	Z41951, and AW295173.
HMSEM59	3349	708076	1-63	15-77	
HMSEM80	3350	718087	1-305	15-319	
HMSEO23	3351	676369	1-394	15-408	
HMSEU01	3352	921628	1-365	15-379	
HMSFH05	3353	932219	1-414	15-428	
HMSFH21	3354	671133	1-333	15-347	AL078463.
HMSFH24	3355	855826	1-259	15-273	
HMSFH27	3356	682204	1-339	15-353	AA180174, AA283603, AA304829, AA233827, and AF115509.
HMSFH29	3357	689857	1-229	15-243	
HMSFH31	3358	583757	1-866	15-880	AI174683, AI174796, N58549, AI523111, AA585278, AA585439, AA585430, AA585389, AA585378, AI526112, AA585325, AA585329, AA283312, AA585453, AA585116, AI525306, AA585327, T26367, T48593, AW366296, AA585351, AI557238, AI525656, AI122127, Z49918, AL109759, AC003084, AC006975, AL035467, AP000432, AF118808, AC002368, AL049545, AL132994, AC004756, Z98200, AL136363, AL132708, and AL133233.
HMSFH34	3359	706349	1-319	15-333	
HMSFH39	3360	705586	1-344	15-358	AA131265.
HMSFH59	3361	739415	1-355	15-369	

HMSFH73	3362	764554	1 - 187	15 - 201	
HMSFH79	3363	775318	1 - 206	15 - 220	
HMSFH83	3364	780301	1 - 520	15 - 534	
HMSFK32	3365	671136	1 - 227	15 - 241	
HMSFL10	3366	968061	1 - 331	15 - 345	AC008062.
HMSFL41	3367	934139	1 - 485	15 - 499	Z45369, and AC004752.
HMSFL49	3368	683406	1 - 287	15 - 301	
HMSFN48	3369	697991	1 - 473	15 - 487	
HMSFQ48	3370	721795	1 - 596	15 - 610	AW083053, AI457313, AI634187, AW069227, AA365893, AA303054, AI744830, AI753365, H68343, AI301475, AI926233, AI275183, R89081, AA747234, AA018231, AA904211, AC006449, AE000658, AC004854, Z83840, AC007227, AC005874, AF134471, AC005046, AC007666, AC005837, AL022312, AL022328, AC005089, AC005071, AC005377, AB023049, AC006011, AL049779, AC004232, AL024498, AC004593, AC004216, Z84469, U96629, AC006057, Z83822, AC005962, AC004859, AR036572, U91328, AL050307, AC006965, AC004876, AC007388, AL022476, AL121653, AL031594, AC007226, AL078477, AL031311, AC005363, AL031589, AC005777, AC004893, AC003108, Z82215, AL023799, AC006285, AL031056, AC007537, AL034420, AC005921, AC005696, AC002400, AC004821, AL024507, AC005231, AP000692, AC005015, AC003982, AL117354, AL034402, Z74739, AC004000, Z93023, AC003957, AC010197, AL049830, AC007637, AL031295, AC005529, AC004858, AC006160, AL033527, AC010311, Z85986, AL031985, AC006039, AC005081, AL096701, AC004099, AP000252, AC002527, Z85986, AC005726, AC002126, Z95116, AL031427, Z83838, AL049759, AC005746, AC008044, AC004019, Z85987, AL050318, AC002115, AP000501, AP000359, AP000212, AC002542, AC004019, AC005037, AC002369, AL009181, Z99943, AL035405, AC000052, AC005383, AP000134, AC005037, Z98051, AC003010, L78833, AC004832, AL034376, AF001552, AB023048, AC000039, AL009172, AL109952, U85195, AC005722, AL035587, AF111167, AC004491, AC005399, AC005740, AC005412, AC004148, Z84466, AL034429, AL049569, AC005914, AC004799, AL022313, AC007216, AL109798, AC006515, AL078638, Z97630, AC005933, AL096774, AC002549, AC006088, AF038458, AL031662, AL049776, AP001053, AP000088, AC005048, AC005215, Z98752, Z83845, AF030453, Z82202, AC004032, AC000105, AF024533, Z83826, AC005215, AC005568, AC005520, Z92542, AC002997, AC004975, AL022336, AL031670, AP000553, AL023575, AL035410, AC004852, AL121769, AP000113, AC006480, Z93783, AC007011, AL080243, AC016831, AC006946, L78810, AL031595, AC005067, AL109758, AC004531, AL080243, AC016831, AC006946, L78810, AL031595, AC005067, AL109758, AC005225, AF064861, and AC004106.
HMSFQ69	3371	657538	1 - 445	15 - 459	AW026161.
HMSFR29	3372	693440	1 - 151	15 - 165	AA552587, AC006296, and AC005841.
HMSFR69	3373	738588	1 - 255	15 - 269	AW081383, AI799195, AI680498, AI345677, AI358213, AI866770, AI357599, AI249946,

AI573026, AI816947, AI636445, AI283143, AI677646, AI798385, AW189415, AI350880, AI446373, AW007597, AW193872, AW089006, AI628833, AI799540, AW105620, AI636619, AW268261, AI636811, AW117919, AI682652, AI281867, AI866082, AI470293, AI539771, AW058233, AI269696, AW090387, AI249877, AI590423, AI830026, AA848053, AW157301, AI446704, AW085673, AI869869, AI290153, AI361291, AA502794, AI913452, AI620093, R40432, AI539687, AI621362, AI24293I, AI70037, AW169462, AI284131, AI242251, AI247082, AW005612, AI280607, AW084097, AI096534, AI625516, AI925404, AI886594, AI554425, AW169368, AI434242, AI684129, AI953765, AI537643, AI873638, AI445976, AI679672, AI921479, AW189148, AI357075, AI446092, AW151926, AI888621, AI659795, AI655841, AI690536, AW079334, AI620714, AI805769, AI499191, AI874151, AI560545, AW075613, AW191844, AI829377, AI589428, AI687065, AI161278, AW103200, AI648408, AW085947, AW006270, AI539781, AI571699, AI539707, AI540606, AI345253, AI559752, AA088789, AI431909, AW082600, AI824497, AI612750, AI536738, AI818320, AI274655, AI583032, AA916372, AI929564, AI802372, AW073898, AI471282, AI640799, AW082532, AI499986, AI805688, AW169001, AI961310, AI890907, AI861972, AI860817, AI538764, AW149876, AW148685, AW409821, AI612885, AW150326, AW168373, AI251221, AW265004, AI538850, AI818578, AA738052, AW189933, AI589273, AI471227, AI690813, AI924686, AW169848, AI251458, AI453328, AW085639, AI687568, AI468959, AW081255, AI885989, AL036772, AL036396, AI683634, AI566724, AW129230, AW129731, AI678284, AI918500, AW190266, AI250871, AW079315, AA878843, AA070889, AI553645, AI349933, AI972155, AW169624, AI270039, AI560679, AI469738, AI493576, AI081740, AI345608, AW081234, AW196075, AI240602, AW008090, AI591407, AI285586, AW071177, AI636268, AW088223, AI283760, AI954504, AW168031, AI371886, AW087270, AA243996, AI439962, AA575874, AI471898, AI682958, AI929108, AI866608, AW132034, AI590686, AI521244, AI473451, AI571868, AI310606, AI690585, AI933992, AI687482, AI537677, AW128795, AI701882, AW083783, AI701975, AA806719, AI922577, AI345471, AI828795, AW129689, AW027904, AI932988, AI567540, AW190286, AI419440, AI679098, AI570966, AW166182, AI861976, AW087385, AI887308, AI631216, AW168823, AI261589, AI804965, AL046463, AI826331, AA012905, AW163834, AW167229, AI587606, AI656412, AI801404, AI524607, AI611743, AI583578, N98606, AW083804, AW168503, AA830821, AI432229, AI097245, AI951222, AI696626, AI589993, AC006141, X99257, A18777, S77771, AL117629, AR068182, I48978, A08913, A08912, A08910, A08911, A08909, AL080140, A08907, A08908, E15582, S76508, X84990, AL050138, I89947, I89931, I49625, AF085809, AF036941, X87582, AR038854, E02349, AF192557, I89934, AL080110, A45787, Y11587, A08916, AC007298, AC002382, AL080127, AF030513, D16301, U77594, AF182215, S78214, S75997, I42402, AF159615, AL133557, X57084, U75370, A18788, AL137292, AF098162, D55641, A21103, X55446, AL137665, L13297, AF113691, L40363, AF067420, AF151109, AL117585, AF081197, AF081195, AF110520,

					AF111112, AF067790, AF119337, AF012536, A65340, I89944, E05822, AF215669, AL049460, AL122106, AF143957, AL137574, X59414, AL080137, AL137705, AL133619, AC006371, AL137300, L19437, AF067728, AF065135, AF132676, AL080154, AF162782, AF061836, AL122111, AF000301, AL133075, U78525, D83989, I41145, AF162270, AF028823, A76337, AL080162, AF199027, U49434, A21101, A23630, A58524, A58523, Y08769, AR000496, U39656, AF000145, M92439, U49908, A17115, A18079, AC004686, AR068753, AL137556, U92068, AR019470, AF115392, AF061795, AF151685, AL133016, AL137495, X72387, I48979, AC004987, X81464, X63410, AL080060, E03348, A57389, S78453, AL049464, AFI13689, AL137526, X66862, AL080159, E03349, AL049382, AF030165, AL117626, U58996, L30117, AR038969, AL137538, AR059958, AF109155, U42031, U96683, AL050149, AL137712, X54971, AF205861, AL137558, AL117440, AL137547, AF061981, S68736, AFI80525, AL137273, AR054987, AF104032, X99226, AL050366, X53587, E08264, AFI13013, AL035407, AC005992, AL110159, A08915, ALI17648, AR068751, AL137429, Y16258, AF114170, AL122049, Y16257, E02756, Y16256, A86558, X56039, I09360, AL133093, U57715, AB025103, AB007812, AF017152, AL110221, AL133062, AL137256, I66342, AL133077, AL137660, AF081571, A51774, AL137527, AL137294, AL050393, AL137555, E02221, E01614, E13364, X62773, AL122121, A93016, A15345, Y11254, AF089818, A76335, AC007390, I92592, I29004, E12579, E12580, Y10823, AL050277, AFI13699, AL137560, AF107847, AF183393, A27171, AL117394, AL110224, X93495, AF119358, AL137476, AL133665, AC002467, AFI06945, I22272, AL080124, AL137463, AF013214, X98066, AFI13019, AL133067, AL049339, AL049938, A65341, E04233, AL137478, X62580, I33392, AL133640, AL137271, Z82022, and AL137554.
					AL035427.
					AC006157.
					T47867, R76479, T49436, F06560, AA715949, AI927261, AI453160, AI564294, AA668475, AA632765, AW081324, AI471467, AW007424, AI819391, AI823533, AI823535, H40478, AA226770, AA515551, R99418, AA748102, AB356264, AW028834, AA017174, AA019068, AI891075, AW058223, W04439, AA046440, AA854460, W56799, AI289916, AA467774, R67093, AA702717, AA719523, R45580, AI801505, AA749029, AA469441, R35259, AL041895, AL040717, AL049274, AC004520, AC004466, AC005200, Z82215, AC005880, AL109984, M15366, AL020996, AC004653, AC004967, Z97635, M30688, AL022337, AL022156, AC005190, X54486, AC000402, AC004100, AC002102, AC005353, AC004100, AC008116, AC000003, AC006965, AC005552, AC006305, AC006333, AC002366, AC006979, AC016027, AC016830, AC005256, AC004955, AC002059, AC004491, M13792, AC005483, AC002378, AL031114, AL031281, AC005225, Z84485, AC002472, AL049779, AC007226, AC006141, AC002554, Z68884, Z99754, Z70281, AC004652, AC004678, AC003048, AC004202, AC003360, AC005796, AC000091,
HMSFR71	3374	760517	1 - 199	15 - 213	
HMSFR92	3375	861344	1 - 567	15 - 581	
HMSFS59	3376	739420	1 - 422	15 - 436	
HMSFS69	3377	757687	1 - 336	15 - 350	

IMSFT23	3378	855812	1 - 399	15 - 413	AL034582, AF002994, AP000300, AC002094, AL023694, Z98046, AL008712, AC008078, Y07848, AL132799, AC003688, AC005773, AP000068, AP000113, AP000045, AL031622, AC004736, AC005153, AC000026, AL050350, AC007279, AL050318, AL109753, AC003071, AC007189, AP000356, Z82189, AC005409, AF123462, AC005040, AC005531, AL031009, AL117391, AC002390, AF190641, AP000091, AL122021, AC005215, AC004408, AC004883, AF107257, AC005684, AP000236, AL031313, AL049709, AC007051, AC007240, AL096770, AC005046, AC005081, AC002470, AC005620, and AF017104.
HMSFT52	3379	727302	1 - 489	15 - 503	R07137, AI761762, AB028943, AP000556, and AP000557.
HMSFT73	3380	761647	1 - 323	15 - 337	AL022165.
HMSFW13	3381	917020	1 - 309	15 - 323	H53374, and R99274.
HMSFX01	3382	917021	1 - 496	15 - 510	
HMSFX08	3383	959784	1 - 290	15 - 304	AA486810, R46108, R37254, R41969, R42367, H12053, AL044613, H16581, AA737346, AA223170, AA342459, H05040, AI923052, AI963688, AA676473, AA665525, AA653300, AA737106, AI279048, AL120481, AA551181, F04207, AA715850, AA485699, F10966, AI191391, H98096, AI243847, H66037, AA345064, AW088581, AA370455, AI754293, AW247392, AA827231, AA651833, H12383, H51061, AI267269, AA991914, AA701080, F04926, AA773740, N74747, AA618080, H71863, AA055784, AL031595, AL117440, AB016194, AL009172, AC007971, AF129756, AC006539, Z98051, AC005531, AL109628, AC005229, AL121655, AC006059, AP000140, AL049589, AP000088, AC006536, AL022476, AC005102, AC006238, AL035695, D87675, AC006530, AC006211, AC007686, AB020864, AC007684, AP000257, AC005520, AC005899, Z69722, AL022238, AC016027, AC000379, AC004859, AC016830, AC002312, AC005730, AF205588, AC002991, AC003963, AC007226, AF111169, AC005488, AF196969, AL022323, AP000098, AL035659, AL035450, AF059675, AC003098, AC007386, AC002425, AC004408, AC002430, AC004381, AC007384, AP000111, AP000043, AC000085, AC007216, AL109656, U82828, AC006011, AF111168, AC005037, Z83838, AC005988, AL049545, AC006449, AC007537, AF126403, Z82976, AL035249, AC005800, AC004996, Z74617, AC006023, AC004000, AC006213, U29895, AL096701, AC002303, U95742, AC004797, AJ011930, AC004024, AC005527, AC007114, AC004590, AL035106, AC005074, AP000459, AC004815, AF165926, AC006487, AL034555, AF001550, AC005846, AL034419, AC000070, AL109865, AP000354, AC009178, AL117258, AC005940, AC002128, AC007024, Z93017, AC006014, AC005399, AC007308, Z94801, AC004991, AL049632, AC134726, AC006478, AC004778, AL080241, AC000159, AL049646, AC007546, AC006120, AC005529, Z83845, Z85986, AC005391, AC007406, Z82194, AC007227, AC005746, L78810, AC002350, AL022237, AL021366, AL049795, AC004787, AF059650, U91318, AL023575, AC000073, AC007199, AL031295, AC005544, AC005082, AL009031, AC005409, AC000094, AC002326, AL035079, Z94161, AL031295, AC006323, AC004813, and Z94721.

HMSFY49	3384	574906	1 - 386	15 - 400	
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HMSFY70	3385	757338	1 - 336	15 - 350	AC005906, AC007363, S42653, AC005512, AC007395, AC005089, Z95331, Z94801, L44140, AC006501, X51956, AC007201, AP000337, AL008632, AL021453, AC003959, AL121838, AP000216, AL023656, AL022326, AC005244, AC006512, AL049776, AF067844, AC006952, AP000352, AP000167, AP000052, AL135879, AL121790, AC005666, AL035422, AF039906, AC007686, AF024534, AF196779, AC005041, AC005796, AL031670, AP000300, AC004890, AD000091, AC002054, AC002472, AC007664, AC008018, AC006111, AL050317, AC007298, D85429, AC002072, AL132766, Z95115, AF064861, AL022069, AC005042, D00591, AL021977, AL031282, AE000658, AC007216, AL031730, AC007637, AL022165, AB012922, Z54147, D42052, Z84496, AL035462, AL096761, Z93244, AL035530, Z84466, AC005378, AC004883, AL078638, AC004770, Z73359, AC007388, AP000045, AP000113, AC004706, AC002301, AC006962, Z82244, AL049575, AL049699, AC006236, Z83850, AL132642, AC007684, AC005913, AC008044, L35533, X69907, AF196969, AC006993, Z82176, AC005390, AC005366, AL096772, U95740, AC000097, AC006549, AC006547, AC005516, AL133355, and Z84469.
HMSFZ04	3386	615473	1 - 201	15 - 215	
HMSGA34	3387	706355	1 - 209	15 - 223	AA623002, H48636, AA774184, AA678499, AA158301, H86860, W85752, AA653964, T53128, AA630925, AA601355, AL046457, AA483223, R84309, W16581, R92288, R84303, AL079935, R84296, R67365, AA602528, W80462, AA584749, AI305766, AA568778, H02477, H86097, AA577906, AI613280, N70442, AW193432, AI002796, AA342914, AA643456, AA858197, AA644538, AA059472, AA678436, AI469172, AA469172, AA136122, AA053551, AA810370, AA524838, AA906889, AI284640, AI270343, AA829405, AA824654, AA641989, AA824655, AL110444, M78177, N23653, H11124, H64778, F23279, AA490183, AA626678, T10560, AA533450, AA513972, AI865364, AA365347, AI610159, AA834755, H02877, AW074398, AA167643, AA633094, R83443, AI758582, AA834297, AA664535, F31204, AA280632, AI824562, AA644015, AA357937, AA743956, AA828856, AL133723, AA574110, AI688846, AA437161, AA158328, AW261871, AI270117, F18974, AI049634, F25203, AW193265, AA515128, AA723017, AI350211, AI923140, AI567786, T48649, AI061334, AI246409, AI282907, F36273, AI889781, AI431303, AI608674, AA457639, AI471481, AA581342, AIB14735, AA745410, H49061, Z98473, AW276827, AI375710, Z82214, AL078640, AL035495, AL024507, AC004931, AC000396, AC005250, AC006211, Z92844, AC004237, AC007227, AL109985, AL096701, AC006327, AP000115, AC003686, AL078621, AC007541, AC004227, AC004833, AL031848, AC009223, Z81369, AL079295, AL008629, AC004761, AP000556, AP000557, AL034423, AL117258, AC005696, AC005412, AC004685, AC005703, AC008038, AC007751, AF117829, AC004895, AC007528, AL008723, AP000477, AL031650, AL096861, AI035681, AC006960, AL121603, AL008583, AC007731, AC005500, AC009891, AC007437, AC007632, AL049550, AP000402, AL096770, AL031178, AC007450, AC006538, AC002531, Z85987, AL035467, AC000066, AC003695, X60152, AC006196, Z97206, AL023803, AC004070, Z84467,

					Accession Numbers
HMSGA41	3388	712490	1 - 530	15 - 544	AL035417, AL031577, AL096769, AL050308, AC002422, AL078604, AC005879, AC007225, AC004041, AP000431, AR036572, U91328, AL022318, AC002347, AJ010770, AC007684, AC005358, AJ246003, AP000548, Z97352, AP000302, AP001059, AC004771, AP000114, AP000046, AL031295, AL049557, U91322, AC004104, AC007536, L43392, AC007687, AC005912, AL022721, AC005084, AL109627, AC005274, AC005043, AC006006, Z69666, AC008173, AC005041, AL033525, AF152365, AC005274, AC008249, AC004583, AC004814, AC005377, AC004960, AC002542, AL121658, AC005837, AC007277, Z98043, AL031588, AC005295, AC007245, AC005191, AC000100, AC002395, AL031591, AC006925, AP000350, Z97987, AL033521, AC002509, I17291, X83604, AC008040, AC004019, AF001550, AL021918, L13709, L13713, AL031732, L13714, X62025, AC006353, AC002041, AC007686, AC004381, AL031447, AC006195, AL135879, AL121790, U91321, AC004386, AC003119, AC002091, AC005971, AF109907, Z99716, AL031407, AC007447, AC006026, Z83313, AC004745, AB020866, AC007666, AL031053, Z98051, AC007447, AC006026, Z83313, AC004745, AB020866, AC007666, AC000052, AF130248, AC000004, AC006468, AL020995, Z82900, AC004152, AL135744, AJ006996, and AP001172.
HMSGB07	3389	953715	1 - 332	15 - 346	
HMSGC69	3390	757337	1 - 340	15 - 354	AA455432, and AA455959.
HMSGC76	3391	767661	1 - 345	15 - 359	AA983767.
HMSGD02	3392	920525	1 - 430	15 - 444	
HMSGD15	3393	959468	1 - 409	15 - 423	AI889995, AA469230, AI587583, AI587565, AI609992, H62123, AI791659, AI609984, AW410409, AW022796, AA857296, AA468923, AI610012, AI866911, AA935827, AI609974, AI003086, AI821605, AI345566, AA480486, AL041375, AI224583, AI590404, AA135761, AW238341, AI733523, AI453155, AI547110, AW020150, AI521525, AI065031, AA507814, AA676592, AA831714, AW341903, AA425283, AI857834, AI560866, Z99348, AA218684, AA182928, AA720582, AI254267, AA557945, AA804726, AI123488, N94115, AW169038, AI890297, AW338376, AW404543, AA171400, F23338, AA226356, AI095197, AA595661, AL134278, AA679946, AW020094, AW302320, AL042667, AL042670, AA584489, AW149241, AI040051, AA084320, AW008217, AI926102, AL120282, AW021399, AI567676, AA601376, AI679730, AL044339, AL044701, AI800426, AA526542, AA584241, AA526099, AI369076, AA197089, AI282488, AI572680, AA493546, AA554289, AW072963, AW157128, AA324108, AA676462, AI754653, AA551519, AI053518, AW072963, AL049569, AC004678, Z82215, AI279417, AA618531, Z95114, AL023575, AC004812, AL049569, AC007685, AL021808, AL031291, Z95115, U78027, AL034549, AL035249, AC007207, AC007685, Z84469, AC005255, AL109627, AC005154, AF047825, AC002326, AL121603, AC005484, Z84469, AC008044, AC005399, AC005081, AC006449, AL009031, AC022318, U91323, AC008372, AC008044, AC005399, AC005013, AP000065, AP000692, AL031311, AC002721, AL022721, AC005841, AC005013, AP000065, AC003108, AP000048,

HMSGH49	3394	1 - 530	15 - 544	AL022316, AL135960, AJ131016, AC007376, AC007041, AL096791, AC007226, AL031300, AC000095, AC006487, AC009464, AC003006, AL139054, AL034548, AL031735, AC004263, AL022302, AL109963, AC005971, AC006285, U91321, AC007371, Z93244, AC002477, AC007731, AC005500, AC007136, AC003043, AC006064, AF001548, AC004491, AC010205, AL122020, AC006241, AC006312, AC016025, AC006213, Z99128, AC005231, Z98051, AF111168, Y10196, AL096701, AL080243, AC006121, AC007546, Z93023, AC005356, Z95116, U47924, AL034379, AL049775, AP000512, AC020663, AL121754, AL034420, AC009288, AC000120, AC006211, AL049758, AF149773, AC004605, AP000152, AL022311, AD000092, AP000359, AC005288, AC004000, AC003035, L44140, AC005702, AC005921, AL022147, AC004148, AL031277, AF196971, AC005082, AL050348, AF196972, AC003110, AC007707, AC004167, L78833, AC005037, AC004887, Z83840, AC002357, AC007242, AC003962, AP000557, AC005516, AC004408, AC004797, AC004967, AC005755, AC007114, AP000049, AL121825, AC007421, AC005330, AL049872, AP000513, AF200465, AC002480, AL132712, AL021391, AL049874, AC005274, Z96074, AL034417, AC006571, AF053356, AC004686, AL049843, AF134726, AC002045, AB023049, AL121756, AC005612, AC005534, AP000311, AC011311, AC004922, AP000011, AC004447, AL049540, AC007934, AC008126, AC002310, AC005089, AC007055, AL049869, M89651, AC006486, AC005046, AC007283, AL031685, L47234, AL049631, Y14768, AP000501, AC005808, AL121655, AC006011, AC008018, AC006146, AF207550, AC004895, AC004383, AC007637, AC002038, AC005529, AB000882, AC003098, AL133312, AP000688, AC003101, AC005071, AC000064, AC007308, AF001552, AC005911, AC004149, AL035659, AL121658, U52112, AC002425, AL109952, AL031282, AF064859, U90094, AC005250, AL031848, AC004662, U91322, AC006084, AL049743, U73167, AC002094, AC007537, AL035443, AL133245, AL031295, AC005412, Z99716, AL133448, AL132642, AC006536, Z83838, AC005291, D88268, AC005372, AP000130, AP000208, AC007664, AL133371, AC006160, AC004099, AC005899, AL031432, AL136295, AL034423, AP000247, D87675, AL133371, AC006160, AC004099, AC005247, AC000026, and AC002394.
HMSGI42	3395	1 - 340	15 - 354	T83331.
HMSGK16	3396	1 - 793	15 - 807	
HMSGK82	3397	1 - 279	15 - 293	
HMSGL27	3398	1 - 1599	15 - 1613	AA287567, AA252404, AW249468, AA547979, AA601218, AA287570, AA569648, AA255853, AI986165, C18751, AA505108, AA126763, AI732430, AI732458, AA127499, AA984187, AA814400, AI917132, AA714224, AA758277, AA085372, AI380617, AI669421, AA714110, AA040051, AL041894, AA610432, AI912401, AW021917, H80203, AI623764, AI923052, AI821044, AI354423, AA515728, AI679413, AI061313, AA604645, AA528390, AW270258, AA582554, AL079734, N32944, AA652868, AI206841, AI783911, AA569667, AA745653, AI962030, AA410788, AI733856, AI244127, AL040054, AW271917, AA579179, AI499954,

| HMSGP45 | 3399 | 699243 | 1 - 428 | 15 - 442 | AI569086, AI862716, AW020088, AI620585, AI885488, AI078409, AA584066, AI561060, AA284247, AL120343, AA828047, AA192293, AI801505, AW157005, AII89682, F24728, AA644090, AA862243, AI669589, AA228778, AA601278, AI335963, AI310343, R92640, AI755214, AA828867, AI754567, AA831345, AI754105, AA643770, AW088049, AA654874, AI809818, AI081147, AA598605, AL121016, AL121653, AL096791, AP000501, AP000011, AC005081, AP000212, AP000134, AC005746, L78810, AL008718, AL022316, AC004112, AC009516, AC005399, AC004883, AL031680, AL031432, AL035400, AC006480, AC006487, AP000552, AC005755, AL021397, AF196972, AC004967, AL008715, AF111168, AP000689, AC006023, AC004019, AC008040, AC004841, AP000030, AC006960, AC006312, AL034549, AL020997, AC005921, AC005725, AL133500, AC005231, U80017, AC007676, AL031228, AL034555, AC005726, AL050318, AC004834, AC002316, AC005412, AC005102, AC004686, AC005696, AC006262, AC006013, AF031078, AC005520, AF196969, AP000350, AC006120, AC007216, AF030876, AC006057, AC000052, AC006211, AL109628, AC004859, AL035659, AC007055, Z85986, AL078638, AC004033, AC004262, AC002492, AL122003, AL035458, AL109798, AF196779, AL022328, Z97054, AC004552, AC018633, AC006271, AL049872, AC005620, AC007011, AL080243, AC005274, AC002543, AL121658, AC005786, AL031295, AC005874, AF134471, AC004655, AC007773, AP000557, AC004815, AC004832, AC005086, AL133353, AC007919, AC005694, AC005519, AC002425, AC006449, AC005209, Z95152, AL049539, AC000026, AC006511, AL031279, AC002476, AC005500, AC005288, AL035587, AC004000, AC007421, AL049795, AC007731, AC006441, AC007242, AC005058, Y18000, AL049569, AC005800, AC004983, AP000356, AC006277, AC008372, Z84487, AL022319, AC020663, AJ246003, U78027, AC002477, AF001549, AL022313, U89337, AC004685, AF053356, AL096701, AL117694, AL133163, AF134726, AC005480, AC005523, AC003965, AP001053, AF200465, AL031848, AC012384, AP000359, AC007370, AC002314, AC004447, AC005527, AC004813, AL031681, AC004263, Z86090, AJ003147, AL035422, AC004254, AC005531, AL022320, AC006323, AC003982, AC003070, AC002470, AC004887, AC002310, AC007376, M89651, AC006450, AC005031, AC006077, AC005342, AL049776, AC005952, AP000251, AP000346, AC004890, AL049636, AL121757, AC003950, AC004408, AC004386, AC005856, AC000081, AC005695, AL031311, AC005940, AC004150, AC007690, AC005529, AC007285, AC007308, AC004477, Z84466, AL024498, AC003957, AC007225, L44140, AC000003, AC004491, AC007999, AL022165, AP000555, AC005736, AC005037, AP000511, AC005778, AL031005, AC005821, AC007279, Z95116, AC005233, AP000694, AF190465, AP000245, AC004185, Z95113, AC005484, AC005763, AC005666, AL109801, AC002059, AL031575, AC004797, AC000353, AL139054, AC004216, U91326, U07563, AL021977, AL008582, AC005291, AC002301, AC002301, AC005200, AC005057, AP000311, Z98750, AC004895, Z84469, AC004662, AC007386, and AL049766. |

Gene	No.				Accessions
HMSGP49	3400	723131	1 - 376	15 - 390	AI740741, AI435434, AI475908, AA626659, AI802875, AA262760, AI524192, AA279545, AA262840, W45255, AL138162, and AC004490.
HMSGP73	3401	925385	1 - 961	15 - 975	AI903448, AA578626, AA525407, AI207476, AA584208, AA313133, AI143653, C14576, AI869786, AI289396, AI921491, AA713705, AA513189, C15336, AA078137, AA525517, AA173166, AW081857, NJ34258, AA347653, R48980, AA584484, AI570380, AA247731, AA304790, AA961966, AW238639, C15180, AA628740, AI049630, AA373861, AA322542, AA078509, AA295893, AA533660, AA295899, AA633799, AL036665, AA633981, AA565232, AA633875, AA666066, F03907, AA601653, AA736713, AA513916, AW327555, AA492524, AI889426, AA493628, AL045423, C15362, AA402113, T49133, AI468993, AA229030, Z36248, T39420, AA084950, AA468923, AL036070, AW438993, AI866971, AL134664, H92398, T06876, AA714190, AA314338, AI431513, AA133013, W52705, AI733856, AA985145, W59977, AA744095, H92613, AA713735, F35684, AI863246, T08386, AA363003, AI338575, F10822, AA308598, F30497, AI624038, AA569206, T07225, AA757758, AI065043, AA302557, AW128881, AI188049, AI590404, AA115655, T03928, AA206366, AA181917, T72631, AI223968, R49266, AI654658, W44359, T64928, H74324, AI679221, AI281401, AI479806, T30418, AW105463, AA683091, AA350406, AW337805, AI859906, H69517, AA728911, AI612810.
HMSGQ30	3402	692880	1 - 393	15 - 407	AC007390.
HMSGQ57	3403	733869	1 - 406	15 - 420	AI468586.
HMSGR88	3404	575241	1 - 214	15 - 228	AA070885, AI884861, AI473995, AI073373, AI903464, AA357979, AA078184, T39390, AC008125, AC004887, D87012, AC011331, AC005551, AL035659, AC002091, AC005015, AL031651, AC003962, AC002326, AL023575, AC006963, AC002364, AC004687, Z98036, AC004703, AC005865, AC004859, AI049569, AC004131, AC005280, Z99716, AF048727, AL133289, AC004383, AC007308, AL049548, AC004891, AC006043, AL021393, AC005081, AL133448, AC004832, AC006000, AC012099, AL035249, AP000303, AL035072, AP000049, AP000116, AP000114, AP000046, AP000311, AL009031, AC003682, U62317, AC007011, AC007421, AL031663, AC005005, AC007993, AC006160, AC004778, AL031664, AC004844, AC005089, AC002563, Z81365, AC002303, AC005231, AL117694, AC005086, D86995, AC003098, AC004100, AL050348, AC002039, AC007237, AL035667, AP000555, AC005726, AC007546, AC004216, U63721, AC005057, AC003973, AC005874, AF134471, AL132826, AL008634, Z82244, AL049869, AC006312, AC006275, AC004675, AL049576, AC006578, AC003681, AC007899, AL133312, AC006336, AC007292, AJ011931, AL020993, AL031781, AL050307, AL031290, AL035417, AJ243213, AC005043, AC008015, AL133238, AF107885, AF205588, AC004150, AF088219, Z93241, AC007367, AC005942, Z49235, AC003007, AL109914, AC005632, AE000662, AC005952, AL049745, AC007193, AP000350, AC004983, AF024533, AC006146, AC010200, AB011126, AC003119, AC000379, AC004836, AC006251, AL031056, AC002312, AL049776, AC004882, AC004975, M94081,

HMSGT45	3405	1-363	15-377	AC005736, AP000065, AL031659, AL049935, AC006030, AL088734, AC004776, AL049694, AL031676, AC004701, AC006039, AC004988, AC005037, U91322, AB020866, AC006270, AC008039, AC004789, AC002991, AC005786, AC005808, AL109798, AC002407, AC006365, AC002546, AC002530, AL034423, Z84466, AC002418, AP000469, AC004552, AC006360, AL022727, AF121898, AL009181, AC006026, AC004765, AC004386, AC004491, AC005529, AC007030, AC008038, AC005261, AC005932, AP000343, AC004156, U15177, AC006077, AL049843, AC005521, U95742, AC004448, Z97987, AP000696, AP000356, AC003082, AC007216, AP000355, AB013005, AF041001, Z95703, AC000353, U73645, AC008989, AC004622, AC004587, AP000045, AP000113, Z85987, AC007880, AC005048, AC003003, Z85986, U91318, AL021937, AF001550, AF196779, AL079306, AC004106, AF172277, AP000008, U95743, Z83826, AC005036, AL109748, AC005376, AC004938, AC006024, AC006959, AC002401, U91325, AF121782, AC005011, AL031053, AC005815, and AC006313.
HMSGU52	3406	1-313	15-327	R00440, H65822, AI032598, and AI655884.
HMSGU76	3407	1-283	15-297	AC004634.
HMSGU89	3408	1-467	15-481	AI791905, W31955, AI739525, AA459612, AA486469, AA410963, AW291807, and AW137789.
HMSGV47	3409	1-409	15-423	AA568624, and AC002477.
HMSGW16	3410	1-343	15-357	
HMSGX02	3411	1-347	15-361	AC005946.
HMSGX12	3412	1-268	15-282	
HMSGX14	3413	1-452	15-466	AW386461, AW386289, AW386672, AW386599, AW386619, and T52919.
HMSGX43	3414	1-290	15-304	
HMSHA04	3415	1-236	15-250	
HMSHA37	3416	1-347	15-361	
HMSHB10	3417	1-364	15-378	
HMSHB14	3418	1-351	15-365	
HMSHC94	3419	1-379	15-393	AC006566.
HMSHD50	3420	1-387	15-401	
HMSHE51	3421	1-364	15-378	
HMSHE55	3422	1-433	15-447	
HMSHG24	3423	1-348	15-362	
HMSHI54	3424	1-392	15-406	AL042448, and AF001549.
HMSHI94	3425	1-579	15-593	AA521310, W22173, and AF093097.
HMSHK14	3426	1-362	15-376	
HMSHL09	3427	1-231	15-245	AA954108.
HMSHL18	3428	1-340	15-354	AA504649, AI243516, AA936359, AA749365, AA748744, AI687298, AI219611, and AL110200.

HMSHL85	3429	773811	1 - 348	15 - 362	AL117354.
HMSHM28	3430	855792	1 - 523	15 - 537	AA476784.
HMSHO64	3431	746582	1 - 398	15 - 412	
HMSHP08	3432	868170	1 - 364	15 - 378	
HMSHQ07	3433	953389	1 - 569	15 - 583	
HMSHR29	3434	924813	1 - 811	15 - 825	R25085, AA281484, AA099305, AA351609, W96314, and AL137561.
HMSHR64	3435	746587	1 - 406	15 - 420	
HMSHT10	3436	964647	1 - 376	15 - 390	AI358229, AA587604, AA908687, AW079135, AW406755, AI457397, AI365988, AA613203, AL119691, AI334443, AW069481, AW419262, AI745325, AI281881, AI053672, AA652764, AI654525, AA482768, AI124759, AW338086, AI270559, AA669840, AA446657, AA610491, C05986, AI284640, AI754253, AW193265, F36273, AI133164, AA581903, AL046457, AW088058, AA551552, AL046205, AA346458, AA613232, AI799642, AI305547, AI821714, AI792133, AI791913, AL038705, AW270270, AA280632, AA503600, AW029038, AA493708, AW079792, AW439558, W79504, AW301809, AA828749, AI431240, AW407578, AA738034, AL120687, AI249997, AA720702, AA580808, AA502866, AI564185, AA613227, AW273218, AA973803, AA113861, AI866908, AI821785, AA309257, AW167372, AL119984, AA164251, H96730, AI245679, AA665021, AI684097, AW089322, AA747777, AW166815, AI471481, AI623696, AL138455, AI623898, AI076616, AL038474, AW341900, R91145, AA631507, AA767971, AW406162, AA569471, AI921296, AI434695, F25135, AA244286, AI299694, AA643962, AA722372, AA521323, F28204, AA713815, AI148277, AI951863, H77643, AA533725, AW021207, AI370878, AW149339, AL022328, AL096701, AC004033, AC005480, AC007731, AC005500, AC004637, Z98051, AC003007, AC006251, AL049569, AC005261, AC005632, AL021808, AC007666, AL049759, L47234, AC005900, AC006275, AC004019, AC004686, AC000052, AC005837, AL049776, Z86061, AC004967, AL020993, AP000114, AP000046, AL049643, AC007510, AC005527, AC004827, AC007207, AL049709, AC004987, AC006205, U85195, U80017, AC005089, AC007685, AE000658, AC007226, AC004638, AC006511, Z82097, AC002091, AC006017, AC006271, AC005231, AC004982, AC004491, AC005971, AC006449, AC002350, AL080243, AC004815, AC016025, AC004148, AC005696, AP000359, AC004848, AC001228, AC006040, AL109939, AL135744, AC000045, AL023913, AC008012, Z97054, AF196779, AC003029, AL022163, AC007390, AC002429, AP000115, AL022302, AC007114, AC005868, AC006312, AC005180, AP000402, AL031777, AC006482, Z83823, AC005529, AC006285, AC009721, AC006014, AC005901, X74558, AC006001, AC004812, AC004626, AC004832, Z69666, AC004765, AC006571, AC005747, AC007227, AC002448, AL008718, AC005841, AC006480, AP000141, AC000025, AL035072, AC005288, AC004997, AC005300, AC002347, AL132774, AC007298, AC005488, AC007151, AL034430, AC004755, AC006063, AC006208, U82668, D87675, AC003048, AC004975, AC005486, AC000353, AP000132, AP000210, AC000210, AC006006, AC008101, AC002544, AB020859, AP000030,

					Accession Numbers
HMSHT46	3437	959516	1 - 242	15 - 256	Z69705, U91326, AC008372, AL033392, AC005230, AC000094, AC005722, AC005585, AL023575, AC005324, AP001068, Z82244, AC007537, AL031687, AC003043, AC016027, AC016831, AL031283, AL121591, AC007308, AC007845, AL021937, AC004099, AC005775, AC005004, U95742, AC008079, AC004963, AC003688, AC016830, AC004931, AC004754, Z99716, AC007766, AC005598, AL132994, AC007324, AC004779, AC006130, AC005406, AC007216, AL117258, AP000509, AF165926, AL021453, AC004069, U78027, AP000065, Z85987, AL110502, AL034417, AL139054, AC004659, AC003030, AL031277, AC006958, AL049699, AL031588, AL022721, AC004966, AC005911, AF001549, AC008018, AC005387, AC006213, AC000085, AP000553, AL008716, AC005678, AC005154, AL031602, Z99754, AP000088, AL031584, AC004986, AL121603, AL021707, AL021393, AC007535, AL021977, Z83840, AC005844, AC006071, AC005209, AL022322, AF190465, AL117328, AR045555, AL034451, Z75744, AC005808, AL008723, AC007051, L44140, AC002316, AC006111, AC007387, AL031311, AC007919, AC003664, AC005839, AL133355, AL121825, AC002476, AC005541, AC005670, AC004890, AC007686, Z84572, AC006116, D87009, AL031666, AP000249, AC005562, AC002045, and X60459.
HMSHU10	3438	964646	1 - 401	15 - 415	AA780867, AA746360, AI367306, AC004540, AL080243, AL031577, AC005086, AC005546, AC007227, AF001548, AL031255, AF024533, AL035455, and AC016473.
HMSHU55	3439	731775	1 - 507	15 - 521	
HMSHV09	3440	731740	1 - 343	15 - 357	
HMSHV44	3441	716596	1 - 531	15 - 545	H67330.
HMSHW22	3442	855779	1 - 380	15 - 394	
HMSHW84	3443	783036	1 - 274	15 - 288	AC006241.
HMSHW93	3444	792302	1 - 299	15 - 313	R25210.
HMSHY07	3445	953331	1 - 494	15 - 508	
HMSHZ03	3446	924136	1 - 523	15 - 537	
HMSHZ56	3447	733386	1 - 302	15 - 316	
HMSIA12	3448	948521	1 - 714	15 - 728	
HMSIB73	3449	578777	1 - 433	15 - 447	AA936787, and AC003962.
HMSIB86	3450	785493	1 - 576	15 - 590	M62052, and AC007263.
HMSIC37	3451	685586	1 - 408	15 - 422	
HMSIC72	3452	740365	1 - 359	15 - 373	
HMSID81	3453	774047	1 - 489	15 - 503	
HMSIE11	3454	967013	1 - 124	15 - 138	AA312074.
HMSIE52	3455	727146	1 - 353	15 - 367	AA525024, AA525066, AA595766, AA524685, AI914785, N71720, AI401643, AA502477, N57913, R59126, AI471755, AI282710, AC003080, Z83847, AC005500, AC002352, AC000353,

HMSIG74	3456	1 - 420	15 - 434	AC004383, AC004216, AL035461, AF053356, AC006430, AC006241, AC004382, M89651, AL035086, AC004638, AC007664, Z84466, Z93341, AC002992, AC002551, AC005484, AC002549, AC004055, AF109907, AC007226, AC004858, AC006213, S62834, M97764, AC004968, AC002472, AC005280, AC008040, AC005005, AP001053, AC007685, AC004910, AC004033, AC003957, AC004242, AL034379, AP000240, AC005736, AC005095, AP001052, AJ011930, AL122020, AC007193, AL049631, AL049712, AC007773, AL022336, AL022162, and AC004526.
HMSII81	3457	1 - 311	15 - 325	R96445, and H70887.
HMSIJ85	3458	1 - 278	15 - 292	AA487995, AI469687, AA487884, F18394, AA776236, AW383129, AI245679, AI364570, AI801591, AW118517, M77950, AI471374, AI355281, T56067, AA364193, AA654998, AI880002, AW157599, AA662017, AA359366, AA365248, AA102412, AI561335, AA584588, AA648064, AA652348, AA299151, AA593533, C15073, AA620525, AA480762, AA862213, AW383634, AI148245, AI910609, AI597832, AI431232, AI832782, AI040313, AL119649, AW302013, AW383608, AW383628, AA533450, AW383440, AW383542, AW383586, AW276172, AI952786, AI986251, AW383596, AW383605, AW383624, AW383606, AA653221, AA653975, AI367471, AI367401, AI355224, AI367420, H15679, AI049940, AL047602, AW272925, AI805380, AI418327, AI702095, AI186470, AI720431, AI684208, AI753567, AA632407, AI677668, N41759, AW082063, AA704147, AA533038, AW025031, T29360, H61393, AL048266, AI354587, AI538928, AI613473, AI635314, AA088841, AL135674, AA704123, AI341664, AI806850, AI198376, AA514737, AA094651, AA302970, AI682998, AI744188, AA053551, T58118, AW190947, AI915068, AA283761, F35659, AA404499, AI357477, AA364224, AA299601, AA228830, N25303, AA323547, AI613459, T67425, T05319, AA937687, AA813902, AW021285, AL119295, N70648, AI493546, AA635331, AA437161, AA535661, AI619997, AI521901, AI306524, AI925040, R80865, AI624698, R94354, W45336, R42293, AW193512, AA838333, AI249997, AI305547, AA702023, AA613893, AI744170, AA091452, AI174535, AA164960, AI572564, AI699060, H64560, AA179090, AI493634, AA829106, AA284184, AI783494, AA669522, AI270343, AW172727, AI439360, AI829331, AI802526, AI679713, W47444, AI587565, AA553385, AI287964, AI587583, AW151884, H97666, AI561255, AW383560, AW338086, AA332215, AW383455, AW383629, AA648110, AI128353, AI341548, AA179136, AI366071, AA079528, AL041382, AW338292, AI915293, AA629597, AA765979, AI110760, AI559114, W04195, AW103415, AA192695, AA481363, AL037574, H98660, AL582890, AW084253, Z98473, AI281474, AA532955, AA342958, AA443065, AI270117, AA826144, AI805563, AA507246, AI345681, AI038833, AA491814, R26134, H60735, AI801205, AW327282, AI345675, AA507246, AI345681, AI038833, AA491814, R26134, H60735, AI801205, AA013176, AI041706, AI633390, AL034402, AC005215, AC002301, U24498, AC002457, AF064866, U95090, AL020995, AL021938, AC000067, AC005661, AC004929, AL031722,

					Accessions
HMSIN64	3459	963441	1 - 559	15 - 573	AL021328, AC005081, AC002467, AB002059, Z97054, AL132716, AC004882, AC004638, AC006239, AL031274, AL031777, AC004856, AC004024, AC002036, AC005529, AC009223, AC005255, L13709, AC002347, AC005159, AL031296, AL031594, AC004673, AL135744, AL049869, AC006385, AL009031, AL023807, AL049872, AC007156, AC006211, AC002326, AC007250, AL109622, AL031321, AC003684, AF050154, AC007225, AL132718, AL008627, AC006140, AB023052, AL022397, AL031255, AL031651, AL096701, AL121653, AC005071, AL031670, AC002558, AC003085, AL049757, Z99570, AC003982, AC002386, AL109623, AC004499, AC007738, AC007240, AC006204, AC004522, AC006111, AL133245, AC008134, AL049766, AL080285, AC005755, X76629, AC000379, Z86064, AC002395, AC007325, L13713, L13714, Z70225, AC004967, AL035690, AC004500, AC006011, AC005361, U07563, AC004875, U78027, AC005520, Z81359, Z82899, AL109827, Z69666, AF124523, AL035494, AC006030, AC004815, Z94277, AC004990, AC004822, AL109758, AC006132, AC006166, AC007136, AL121576, Z97205, AL031295, AF118808, AC006001, AJ003147, AC004655, AL035422, AC002312, AF152365, AC007344, AC007919, AL078476, AC002472, AC010582, AP000305, AP000047, AP000115, AC004492, AC007130, AC005541, AC009044, AC006120, AC004963, AC009336, AC007877, AL035361, AC007664, Z78615, AL021368, AJ010598, AC005069, AC008967, AC007384, AC005324, AC007162, AC004009, AL078472, AC005699, AC010200, AC005701, AC004527, AP000301, Z80899, AF039906, AL096768, AC005785, AC007160, AC005827, AL031685, AL031668, AL031848, AC006285, AC002038, AC007546, AC007686, U67221, AB023051, AL050308, L44140, AL049760, Z84722, D87675, AC005495, AC007338, AC006241, AL050321, AC004682, AF165926, U72790, L48476, AC004739, U40369, AL022311, U72787, AC003064, AF061032, AP000546, AC007759, AC002106, AC002302, AC004042, AC005787, AC005512, AC004511, AC006126, AC005775, AL022302, AC004042, AL021546, AC004013, Z83819, AL031662, AC004752, Z98885, AL031178, Z98256, AL049651, AC007200, AB020865, D87009, Z98052, AL034420, AL031666, Z82195, AL009174, Z93016, Z94721, AL022718, AC007690, AL009179, AL021939, AF001548, AC004984, AL078603, AC005940, AJ010770, AC006064, AL121577, AL021395, AC005899, AC006210, AC005832, AC004106, AC008372, Z97634, Y12855, AC005355, AF181449, AC006996, AC006121, AC004616, AC003002, AC004547, AL049747, L81583, and AC001555.
HMSIN75	3460	728670	1 - 299	15 - 313	AA400632, AA368986, AA400317, AA811357, AI815926, AA353038, AI815728, AI886832, AI554783, AA740345, AA676886, AI833007, AI090223, AI148002, AW081785, AI436367, AA513753, AI797479, AI191303, F26406, AI188727, AA536076, AI432454, R07547, AI336523, and AI970899.
HMSIO61	3461	741811	1 - 398	15 - 412	AC005950, and AC001228.
HMSIO76	3462	767680	1 - 396	15 - 410	
HMSIP13	3463	792379	1 - 602	15 - 616	

HMSIP59	3464	739275	1 - 477	15 - 491	
HMSIS02	3465	920078	1 - 438	15 - 452	
HMSIT63	3466	745068	1 - 360	15 - 374	AP000150, D83253, and AP000009.
HMSIT73	3467	708077	1 - 309	15 - 323	
HMSIU50	3468	706363	1 - 349	15 - 363	AC007537, and AL109865.
HMSIV17	3469	712318	1 - 505	15 - 519	
HMSJA36	3470	685633	1 - 242	15 - 256	AL121652.
HMSJA69	3471	745227	1 - 323	15 - 337	
HMSJB02	3472	920065	1 - 552	15 - 566	
HMSJB64	3473	969637	1 - 356	15 - 370	AL043325, and D29677.
HMSJB83	3474	781172	1 - 303	15 - 317	F06560.
HMSJB93	3475	676414	1 - 411	15 - 425	
HMSJE47	3476	928252	1 - 527	15 - 541	
HMSJE52	3477	868167	1 - 455	15 - 469	
HMSJE69	3478	513164	1 - 598	15 - 612	
HMSJH79	3479	760667	1 - 420	15 - 434	
HMSJI22	3480	674557	1 - 584	15 - 598	AC004262.
HMSJJ24	3481	928152	1 - 651	15 - 665	AI144557, AA777781, AI418005, AW139587, AW206289, AI627853, AI493150, AA827263, AW301021, AA196170, AI367643, R84740, AW139788, AI539840, AA992466, AL135079, AA342835, AA018860, AW341838, AA889455, AI086195, AI032948, AA136660, W95055, AW277153, AI123630, AC006987, AL031846, AC007276, and AL035461.
HMSJJ83	3482	781094	1 - 312	15 - 326	N71930, AA557879, AW193546, AL137954, AL120502, AA368936, AA578961, AA441788, AW072923, AI432270, AW406659, AI379719, AI499094, AI143242, AW069807, AI499503, AA837783, AA342901, T07324, AI307201, AA594215, AI160117, AA483034, AI635818, AA484148, AL119298, F28576, F36373, AA626637, AA528679, AI569086, AW265197, AA601270, AA309460, AA652057, AA649642, AI003734, AL041706, AA658846, AI079910, AA641103, AA493508, AI707788, AW193500, AW302117, AI890928, AI709066, AA095511, AI890570, AW088058, AL334435, AW340844, AL079645, AA694169, AW438916, AW057877, AI264743, AA578154, AL042856, AI312149, AA715270, AI357551, AA448858, AI051551, AI471374, AA484262, AA125788, AL079843, AI445436, AW408161, AA355281, AW406447, AA847741, R72392, AI281903, AI754291, AA548137, AA715268, AW276435, AW276932, AI557323, AI561335, AW264969, AI609223, AW173651, AA632648, AW072587, AI744739, AI469172, AI435544, AA341228, AW238016, AI963786, R13151, T92445, AA360694, AI345518, T63104, AI114660, AA657533, H70615, AI801591, AA608710, F33511, AA338522, AI674873, AI914706, AA448838, AI312309, AI654588, H55894, AA862225, AW188679, AA443695, T08638, AA584581, AA357987, AL110418, AA599495, AI473701, AI279759, AW249835,

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AA502207, AI078409, AA635150, AI003391, AA182569, T16427, AA112646, AA551062, AI307563, AA458452, AA228442, F02399, AL135490, AA661590, AA021354, AI446478, AI302350, AA720732, AA722505, AA582554, AW407679, AI190648, AI270476, AI798493, AI302994, AA413406, AA021388, AI040051, AW081303, T03928, AI554243, AI453321, AI538075, AA631915, AA054170, AI610468, AA483103, AI862716, AI583466, AC004893, AL031597, AC004685, AC002544, AL035420, AC005839, AP000501, AL132777, AC006208, AC004000, AC005049, AC002476, AF165926, AL133246, AC000353, AC006211, AC007096, AL035685, AL031774, AC005531, AC005081, AP000103, AC005726, AC007637,					
HMSJLA41	3483	922753	1 - 504	15 - 518
HMSJM33	3484	702408	1 - 411	15 - 425
HMSJO36	3485	708084	1 - 397	15 - 411

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					AC003043, AC007225, AC005274, AC004973, AC007773, AC005089, U91326, AC007993, AL031735, AC005411, AC005480, AC004033, AC005535, AL117352, AC004079, AC008116, AC004796, AL049697, AL031118, AL031667, AP000355, AC002492, AC003029, AP001052, AC000003, AL031432, AC004895, AL031673, AL008718, AC007216, AL050327, AB023048, AL121653, AL132712, AC004129, Z84487, AF196969, AC005064, AC005011, AC004139, Z98200, AC005777, AF038458, AC004686, AC004834, AC005412, AC004851, AP000211, AP000133, AC005363, Z97630, AL008710, AL034402, AC006077, AF053356, AL049872, AC008134, AL035072, AC004231, AL035683, AP000555, AL022313, AL022396, AC004526, AF134726, Z83826, AC004913, Z81365, AL049874, AL035450, L78810, AF030453, AC007551, AC006581, AC005837, AC004596, AC005907, AL033524, AF111169, AC006511, Z98941, AC003101, AC004841, AL008629, AC007226, AC005822, AC004814, AL049839, AL034582, AC007510, AL133448, AL034400, AL035413, AC006241, AL109758, AF001550, AC016830, AC005874, AF134471, AP000557, AC007686, AP000689, AC007283, AC005971, AJ246003, Z85996, AL136295, AC005228, AC007387, AC005520, AC007263, AL049569, AC002369, AL022165, AC004019, AC005229, AC002565, AC006039, AL035587, AL121658, AF067844, AL035249, Z98751, AC004216, AL034548, AC003663, AC005722, Z94056, AC007546, AC005332, AC004073, AL035089, AC005015, Z99716, AL035455, S42653, AC002554, Z82190, AC000159, AC004963, AC006449, AL035405, AC006441, AL049776, Z98304, AC008372, AC003962, AL031053, AC005154, AF001549, AC004655, AC005537, Z97053, AC006547, AC005881, AB020868, AL020993, AC005088, AL109952, AP000563, AC002430, AC002300, AL049759, U95739, AC004020, AL133163, Z93023, Z83843, AC002553, AC003035, AC007688, AC002350, AC005755, M89651, AC007384, AL031680, AC002302, AC005736, AC005209, AC003684, AC006126, AC002126, AL109984, AC000025, AC004876, AC004707, AC002375, AC005828, AL109627, AL021395, AC005280, U91323, AC006273, AB003151, and AC004678.
HMSJO44	3486	716600	1 - 378	15 - 392	AA740736, W61253, AA780648, AA167179, AI150934, T03928, AA743718, AA598889, AA865640, AI082150, AC007421, AC020091, Z82206, AP000691, AC006047, AC005484, AC004185, AL031680, Z69638, AP000692, AL033527, AC006538, AC016025, AL122020, AC007684, Z85986, AC002481, AC006511, AF217403, AL133249, AL022323, AL031311, AP000509, AC004668, AF196969, AC006960, AL109963, Z85994, AL049641, AL031846, AL021528, AC005342, AF207550, AC004953, AL031602, Z98941, AC005829, AC005332, AF111168, D84394, AP000228, AL031597, AP001056, AC005694, AL035455, and AC004017.
HMSJR07	3487	854106	1 - 495	15 - 509	AA565398, AA382192, T73974, N87333, AW713974, AW132065, AA557727, AA639939, AI049924, AI281622, AI887397, R57089, H59974, AA654293, AI911936, AI923263, H97930, AA070614, AA370883, AA618451, AA468247, N27874, AI601229, AI754653, AA468318, AA669747, AA584765, R77715, AW271071, H80215, AI419419, AI423034, AA721581, AA165079, H47641, F07225, T47096, AC005838, AL049646, AC002128, AL117354, AL049795, AL049712, AF118808, AF001905, AL137191, AC005994, AL049844, AL109865, AL022400, AF111168,

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HMSJR27	3488	855760	1 - 576	15 - 590	AC006313, AL035458, AC005730, AL035443, and AL034344.
HMSJR41	3489	967070	1 - 416	15 - 430	AA002166, AA256383, AA699351, AA176339, and AJ249977.
HMSJR74	3490	710402	1 - 427	15 - 441	
HMSJT11	3491	965007	1 - 1744	15 - 1758	AI962693, AA135585, AL137976, AI417140, AA745126, AI352492, AA436379, AI379403, AW006280, AA135524, AA234271, N22187, AA491640, AA256692, N71230, H23394, F12594, and AB011127.
HMSJT60	3492	733379	1 - 258	15 - 272	AA218874, AW069273, N57205, AA975894, AA831375, H81732, AA730795, T98915, T62975, AA370455, AA330772, AA828696, R79496, R93081, AA348602, AI472686, AA968509, H97358, AA676621, AA317096, H12383, AC005099, AC004448, AC007327, AC005921, AC000063, AL033523, AC005736, AC002395, AP000556, AP000557, X77744, AP000553, D87011, AC007240, AC004961, AC004821, AC007666, AC007227, AC000052, AC004019, AC007226, AL135744, Z81308, AL049766, Z82194, AL035415, AC010170, AP001053, AP000252, AL023755, AP000134, AP000212, AL080276, AP000031, AC008372, Z86090, AC005914, AP000281, AC007999, AP000039, AP000107, AL049576, AC004706, AC007055, AC007151, and AL117337.
HMSJT70	3493	756465	1 - 385	15 - 399	
HMSJT79	3494	954141	1 - 433	15 - 447	
HMSJU28	3495	686664	1 - 400	15 - 414	
HMSJV67	3496	751602	1 - 401	15 - 415	
HMSJW12	3497	902568	1 - 3126	15 - 3140	AA585278, AA283312, AA585378, AA585389, AI526112, AA585116, AA585325, AA585329, AA585430, AA585439, T48593, AA585356, AA585327, AA585098, AA585453, AI525306, T26367, AW366296, AA585351, AA585101, AI541402, AI546855, AI541515, AF135243, A85395, A85476, AB005666, AR031358, AR017826, AR031365, AJ131952, AR037157, X82786, X55499, AR008429, AR062871, A25909, AJ007320, A70872, X93517, A44281, A94995, A70899, AR029417, A70869, AR060142, AR060137, A30438, Z79475, I50122, AR038669, A91667, M60510, A91666, AR060134, A84772, A84776, A84773, A84775, A84774, A83076, AF134119, Z79435, U79666, A91750, X84816, AR028672, AB005559, U89315, AR060057, AJ009991, AJ012010, Z31700, and A44216.
HMSJW19	3498	744990	1 - 691	15 - 705	AL043195.
HMSJW25	3499	678096	1 - 534	15 - 548	AL122020.
HMSJZ11	3500	861381	1 - 587	15 - 601	
HMSKB02	3501	920056	1 - 488	15 - 502	
HMSKB24	3502	855883	1 - 196	15 - 210	
HMSKC56	3503	733388	1 - 397	15 - 411	
HMSKC66	3504	783028	1 - 371	15 - 385	AW058639, AI339743, AA465532, AI698594, and AL133112.

HMSKC90	3505	1 - 373	15 - 387	
HMSKF32	3506	1 - 383	15 - 397	
HMSKF62	3507	1 - 587	15 - 601	AC004751.
HMSKG23	3508	1 - 381	15 - 395	AC008545.
HMSKJ08	3509	1 - 509	15 - 523	AI203185, AW239380, AF094516, and AL122075.
HMSKQ60	3510	1 - 513	15 - 527	AW085811, AI188327, AI065031, AW069769, AA661583, H64858, H64884, AI962030, AW021399, AW023975, AW151848, AI609972, H59797, F35374, AI355246, AL042667, AL042670, AW023111, AI701898, AW237673, AI250333, AW328331, AI733856, AI801479, AI890283, AI754257, AI439525, AI040051, AW069227, AI580472, T57096, AW243817, AA199578, AI174827, AW275432, AL121039, AI031759, AI702049, AW265468, AW328185, AI927275, AI744199, AW021917, AI733523, AA601336, AI571094, AI921744, AI567676, AI884404, AI251024, AW268793, AW021674, H38769, AA610381, AL044966, AI754653, AI017251, AI744890, AA493546, AW162314, W04260, AA809546, AW020612, AI925812, AI003469, AA644090, AI254267, AW085626, F23338, AI859438, AA515728, AA507623, AI803824, AI061313, AA525753, AA503307, AW162332, AA640305, AI249365, AA526542, AL038936, AA812133, AI572680, AA421536, AW028376, AW148821, AI889177, AI267416, AA828834, AI312614, AW057760, AW410844, AI053696, AI221027, AI003068, AA526659, AA720732, AI000314, AI049955, AI133083, AA533660, AA526658, H86399, F29968, AW270385, N23504, AI547110, AA470933, AL036949, AA112864, AA947352, AI821901, AW020094, AW189853, AW268277, AI311796, AW301771, AI446618, AA653139, AI039257, AI246796, AW407007, H94598, AI872229, H62123, AI862716, AA593168, AI185160, M77964, AA636077, R79396, AI918661, AA807704, H47461, AI434103, AI679759, AL038533, N70293, AA600127, AI457313, AI064968, AI202777, AW190437, AI634187, AW131109, AI805556, AI361401, AA761454, AA428991, AA496042, AI363336, AI419014, AI805373, AI343808, N35135, AW081610, AI732151, AA502991, AA152398, AW419201, H68343, AA568303, AW082104, AA604149, AA600202, T90477, AA595661, AA515727, R93919, AA364147, AA598545, AI801505, W27084, AA551062, AC006071, AC006006, AC005914, AC005695, AC005015, AP000116, AC006449, Z84474, AL022320, AC004876, AC004760, AC005826, AC005755, AL121603, AC005993, AC007666, AL031680, AP000048, AC005694, AC004263, AL009181, AC004671, AC004765, AP000558, Z97055, AP000309, AC007314, AL049591, AC006379, AC005064, AL035684, AC002351, AL022313, AC009247, Z83844, AC005037, AL133448, AC005527, AC004796, AL022336, AC005529, AL096712, AC005519, AC006344, Z83840, AC002418, AC005484, AL031255, AL031587, AL022721, AC009516, Z80232, AL034553, AP000280, AC007686, AP001068, AC005300, AC006539, AC004386, AP000252, AP000107, AL117391, AC004019, AL034379, Z95116, Z97181, AC007917, AC005902, AL035445, AC008498, AC005288, AC007285, AF031077, Z81450, AC005736, AL109847, AC007051,

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HMSKS66	3511	413201	1 - 426	15 - 440	
HMSKU36	3512	966289	1 - 374	15 - 388	
HMSKU90	3513	920151	1 - 734	15 - 748	
HMSKZZ29	3514	690662	1 - 341	15 - 355	

AA584183, AI358542, AI254770, AI302156, R70883, AA541532, AA668905, AI251944,
AI284126, AA306530, AI251034, AI251203, AA315361, AI251284, AA837771, AI369580,
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HMSLB94	3515	773812	1-317	15-331	AC005546, AC004821, AC004583, AP001052, AFI34726, AL022476, AL121769, AC007444, AP000032, AP000103, AC005484, AC005069, AC006571, AL049830, AC007225, AC007773, AC006120, AC006011, AP000117, AC007388, AC002988, AC002044, AF196972, Z99716, AC006387, AL109963, AC005159, Z68277, AL049589, AC006582, AL049561, AL121973, AC005206, AL031686, Z84466, AC003982, AC006323, AC004983, AL008583, and AC007938.
HMSMB83	3516	950970	1-600	15-614	AW193829.
HMSMF12	3517	948393	1-443	15-457	
HMSMG02	3518	915179	1-369	15-383	
HMSMH05	3519	931095	1-594	15-608	
HMSMI12	3520	969636	1-610	15-624	AI866580, AII33083, AA719073, AA469282, AA824484, AA601674, AII14733, AII33552, AL109628, AC009247, AC005670, Z99716, AC005920, AC007917, AC005409, Z84487, AL022326, AL022163, AC004686, AF053356, AL031846, AC004922, AL133244, AC005527, AC007216, AC007055, AC004491, AC005940, AC006538, AC005562, AC005529, AC004703, AC004815, AC003663, AC006539, AF134726, AC007688, AC005225, AC005081, AC004991, AC006021, AC002425, AC002350, AP000503, Z98884, AL034343, AC007676, AC006312, U85195, AC007285, AC020663, AL022399, AC005632, AE000658, Z97056, AL135783, AL021939, D63861, AC005914, AC005288, AF001552, AL031311, AC005015, AC004897, AC004883, AC005057, AL049776, AF064858, Z83845, AC004990, AC006509, AC005829, AL035462, AC008072, AF129756, U62317, AC004760, AL079342, AC004552, AC002301, AL049591, AC004150, AC006071, AL022165, AC005082, AL133448, AL109798, U96629, AL022329, AC002115, AP000501, AL121603, AC016025, U91323, AL023803, AC007227, AC005746, AL049636, AL035091, AC007226, AC007686, AL035400, AF111168, AC005500, AC007685, AC005363, U95742, AL121653, AL031589, AC003037, AC002558, AL035681, AC004895, AL021808, AB003151, AL049830, Z93017, Z98742, AC005520, AF047825, AC006057, and AL024508.
HMSMK12	3521	841898	1-658	15-672	R51068, H18491, AW378532, D34614, AC006208, and AL022322.
HMSML27	3522	870008	1-344	15-358	
HMSMN04	3523	926746	1-179	15-193	
HMSMN23	3524	932548	1-708	15-722	N80156.
HMSMQ05	3525	931022	1-98	15-112	
HMSMV92	3526	934140	1-502	15-516	
HMSMX68	3527	861333	1-412	15-426	F04478, AA661921, AW438643, AA492081, F09626, AI002834, AI634384, AA584167, AA992351, D52587, F19070, AA782304, AA780944, AW193265, AW276827, AI688846, AL046409, AI619997, AA347368, AA577906, AI860013, AI345157, AI350211, AW193432, AA599920, AI289067, AI061334, AA623002, AI754658, AA873532, AL045808, AL046156,

HMSNA44	3528	861293	1 - 615	15 - 629	AI814735, AI744995, AI584186, AI375710, AI133164, AL135520, AI305766, AA757797, AW302903, AW083364, AI537955, AA634165, AA320113, AI341664, AI344844, AL046266, AA719805, TS1911, AA491831, AA621596, AA493695, AI431303, AW023149, AA350859, W45625, AA715355, AA664015, F00132, AA244208, AA568778, AC007314, X55932, U18390, L47228, X55929, AC005907, U18389, S77605, S70689, I51997, X54179, U18388, X55930, U57008, U18393, AD000684, X55925, U18394, U18395, U57006, U18392, U18391, S70692, X54180, U57007, AC007919, AC003005, X54175, AC006017, S70707, X55926, AF015157, X55927, AL023575, AL031668, U18396, AF015153, X53550, Z69666, Z82215, AF015147, AL109617, X54177, AF015151, AC007304, AP000473, AL049776, X55931, L81654, AC009946, X54178, AL049642, AC004043, X54181, AC006449, AL033525, U67227, U67217, AC003957, U67231, U67230, AC004072, U67801, U67226, U67229, AC000100, AC008039, AC005783, AC004593, AL132800, AC008101, AJ003147, U67211, AL023807, AC005696, AC006998, Z49816, AL031281, AL133321, AC005821, U67235, AL021937, AC002470, AF088035, AL137100, X88791, AP000855, AL080242, AC005548, U67234, U67222, AL008720, AL121934, U91322, AC002429, U67233, U67225, AC004691, Z83844, Z98200, AC007682, U67228, Z98172, AL080278, AC007687, AL035681, AL035458, AP000468, AL031291, AC003080, AP000328, AL049709, AC004047, AC002347, AC004848, L43392, AC007324, AL049871, AC004675, AC006120, AC007656, Z68869, AL023804, AC005288, AC004832, AC004816, AC002037, AC005209, AC006315, AC007664, AC008079, AC007193, AL035361, AF088219, AC005533, AL049712, AL109618, AC006312, AJ011932, Z97630, AL035249, U67216, AC005041, AL049829, AL031432, AC005553, AF123462, AP000144, and AL049766.
HMSNR30	3529	968716	1 - 622	15 - 636	AI089800, AA830179, AA830184, AI798048, AW055247, AA913784, R62312, AI219663, R62313, AA164726, Z82243, AF107840, and AL049869.
HMSNR92	3530	861314	1 - 612	15 - 626	H51736, and AA352806.
HMSNX38	3531	974321	1 - 585	15 - 599	
HMSOA29	3532	953329	1 - 455	15 - 469	AP000083, and AL049634.
HMSOA34	3533	936036	1 - 753	15 - 767	
HMSOB43	3534	961779	1 - 321	15 - 335	AC004706, AC000357, AC016025, AC016026, L78833, AF064863, and AL023575.
HMSOC76	3535	916807	1 - 238	15 - 252	AA657671, and AI926886.
HMSOE03	3536	922858	1 - 401	15 - 415	AL031133.
HMSOG57	3537	861298	1 - 541	15 - 555	W04498.
HMSOM08	3538	958216	1 - 557	15 - 571	AW157349.
HMSON02	3539	918397	1 - 436	15 - 450	AA595739, and AL022476.
HMSON77	3540	861288	1 - 613	15 - 627	T59270, AA484892, AA714073, AA857812, AA741301, AI279417, AI797998, AA728911, AI798242, AA326452, AI419337, AI361090, AI678581, AI421950, AA635565, AW303822,

HMSOO10	3541	963389	1 - 514	15 - 528	AW026305, N75708, AA654535, AI859906, AI354602, AW247389, AW389929, AA830615, AA020882, AA348602, AA516247, AA664248, AI049955, T08386, AA767571, AI289050, AA339789, AI284092, T94072, AI143653, H02532, AA358258, AI359200, F17537, F30586, AI884861, AI123488, F03907, AA984763, AI024439, AA501461, AW192518, F10822, AW372037, AL044602, AI921619, AI362442, T05617, AL570805, W78056, AA831638, AA218874, N29930, R45579, AA453558, AA916430, AW069273, AI803741, AA745302, AA730795, AL118573, AI889426, AA828045, AA578905, AA632556, AI948984, R62772, AA878407, N55041, AI948959, AL584031, AW089625, AA662989, AA504872, AA598608, AL270647, AA487569, F25640, AF001552, AC005274, AL035684, AC004383, AC006026, AL049872, AL034428, AJ003147, AC004024, AC007685, AC005088, AL109798, AL021407, AC004125, AC004832, Z73417, Z93023, AB023054, AC002287, Z98304, AC006064, AC006263, Z95331, AF095901, AF109907, Z84480, L44140, AF015416, Z98742, AC008372, AL033527, AC005972, AC007066, Z98949, AF030453, AL109827, AC005670, U47924, AC006468, AC000359, AC004882, AL034400, Z95115, AC005859, Z85996, AF196971, AC006581, AC004491, AC005529, AC007656, AL133163, AC006449, AP000240, AP000065, AL021393, AC005291, AC006538, AP000221, U91321, AP000229, AL049759, AC004961, AC005300, AC005740, AC005193, AF196972, AL121825, AC004079, AC004106, AC005598, AL022312, Z82206, AL049829, AP000008, AF111169, AL096791, AL035398, AC007917, Z68164, AL211155, AF064865, AC004055, AC005057, AC007057, AP000704, AC004890, AC005288, AL023876, AC005057, AC005327, AC005881, AC004876, AL049869, AC006211, AL022162, AL031053, AC007151, AD000812, AC007263, Z92542, AL031767, AL034548, AL022313, AC016027, AL009179, AL031311, AC003983, AL008630, AC005578, AC005048, AL035458, AL009181, AC005006, AC005209, AF165138, AF003626, AC002126, AL133371, AC005796, AL031228, AC004033, AC007193, AC002472, AP000031, AC005754, AC007664, AL096761, AC002530, AC004150, AC005940, AC005476, Z82176, AF001549, AC004025, AC007030, AC002538, AC012384, AC004408, AL031985, AC003101, AL035419, AC007450, AL022320, AC005538, AC007688, AJ251973, AL049839, AL049576, AC005081, AC005480, AC001234, AP000112, AP000044, AC007056, AL031284, AC003047, AC002116, AC004801, AC004993, AP001052, AL022315, Z93017, AC005815, AC006599, AL133485, AL031279, AC009330, AC004003, AP000272, AL031680, AP000518, AP000193, AC003071, AF060568, AC004895, AL008729, Z68269, AC005971, AP000050, AC007225, AC005015, AC007880, AC003982, AC009363, Z69366, AC005152, AP000493, AF111167, AC000394, AC004953, AC009247, AF067844, AP000045, AC006485, AP000117, AL035400, AC006130, AF038458, AL009051, AL049712, Z82203, AC007666, AL080245, AC005778, AC004887, AL109967, AL049734, AF053356, AC006466, AC004966, U96629, AC004687, AF117829, AC006160, AC006960, AC002425, AL048361, AC005261, and AC006950. and AC007228.

HMSOP01	3542	915083	1 - 580	15 - 594	AA020882, H64598, T60940, R78647, AI223968, AA487219, AA487079, AA558487, T07225, AA515224, AC000059, AL079342, AL035079, AC003071, Z93020, AC005081, AC004655, AL035555, U80017, AL049776, AC005482, AP000704, AL021154, AL121754, AP000555, AC006536, AF179633, AF196971, AC009405, AL133245, AP000355, Z84469, AC002073, AP000350, AL031673, AC002395, AC006360, AF111168, AC005826, AL109809, AC004051, AC006121, AC003669, AC005873, AC005004, AF029308, U47924, AC005934, AL109620, AC006061, AL121757, AL049780, AC005369, AC006128, AL136295, AL031311, AL031257, AC005225, AL031985, AF130247, U40455, AC000066, AC007632, AC010205, AC004764, AC005399, AC007785, AC003051, and AC007091.
HMSOQ75	3543	959856	1 - 245	15 - 259	
HMSOU16	3544	948198	1 - 631	15 - 645	D59619, D80253, D80196, D51423, D59927, D80219, D80366, D80193, D59889, D80043, D80045, D80210, D80240, D80391, D51250, C15076, C75259, D80195, T03269, D80022, D81030, D80227, D50995, D59275, D58283, C14014, D80134, D80188, D80038, D59787, D51799, C14227, F13647, D80378, D81026, D59467, D80168, AA285331, D80949, T11051, D80212, D50979, C14429, D80164, D59502, D59695, D80166, D59859, D80269, D80268, AI910186, D58253, D80024, T11417, D57483, D59610, AW178893, D81111, D80241, D52291, C14331, AW177440, C14389, AW179328, D51060, AW178775, AW378532, AA305409, AI557751, AW377671, D51079, AI905856, AW352158, D51097, D80522, AW178762, AW177501, AW177511, AW360834, D80014, D51022, AW360811, AW352117, AA305578, AW360817, AW176467, AW378540, AW375405, D80251, AW366296, AW360844, AW375406, AW378534, D80064, AW179220, AW179332, AW377672, AW179023, AW178905, D80248, AW377676, AA514188, AW378539, AW352171, AW352170, AW177731, AW178907, AW179019, AW179024, AW177456, AA514186, AW177505, D80133, AW178906, AW360841, AW179020, AW178909, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018, C05695, AW352174, AW179004, AW178914, AW378525, AW367967, D80132, AW177728, AW178774, AW178911, AW378543, D80302, AW352163, AI557774, AW178983, AW352120, D80439, AW178781, D80247, T48593, D80258, AW177723, D51103, AW367950, D58101, T03116, AW378533, AA033512, C06015, D80157, D51759, AL048680, AW178986, D58246, D59503, AW177734, D45260, C14975, C03092, AW378542, H67854, H67866, Z17814, AA809122, AI535850, AI525923, D80314, AI535959, AW360855, AI525917, D59317, AA514184, AI525920, AI535686, AI525227, AI525913, A67220, A25909, D26022, D34614, AR025207, Y17188, X68127, AB012117, A85396, AR066482, A85477, A62300, A86792, A62298, X67155, U87250, I19525, D89785, A78862, A44171, A84916, AJ132110, D88547, X93549, S69292, X82626, AR018138, I18371, AF135125, S78798, AR062871, I15997, AF058696, Y12724, AR037157, A80951, X92518, AR008430, AR008278, AR051191, AR064240, A20702, AR062872, AR017907, A43189, AR062873, A43188, A20700, AB028859, A84772, X89963, A84776, AR067731, AR067732, A58522, A91750, A84773, A84775, A84774,

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HMSOU92	3545	947760	1 - 521	15 - 535	AA131030, and AA130991.
HMSOV17	3546	835834	1 - 701	15 - 715	N70425, D59927, D59619, D80253, D80196, D80193, D51423, D80219, D80366, D80043, D51250, D80210, D59889, D80240, D80391, D80045, C15076, C75259, D50995, D80195, D59275, T03269, D81030, D80227, D58283, D80134, C14014, D80022, D59787, D80188, F13647, D80038, D51799, D81026, C14227, D59467, D80378, D80168, AA285331, T11051, D50979, D80949, D80212, C14429, D59502, D80164, W93336, D80166, D59859, D59859, D80268, D80269, H69709, D58253, AI910186, D80024, T11417, D57483, D59610, AW178893, D80241, D81111, C14331, C14389, D52291, AW177440, AI557751, D51060, AW179328, AW178775, AA305409, AW378532, AI905856, D51079, AW377671, AW352158, D51097, D80522, AW177501, AW177511, AW178762, D51022, AW360834, D80014, AW360811, AW352117, AA305578, AW375406, AW176467, AW375405, AW378540, D80251, D80064, AW366296, AW360844, AW360817, AW378534, AW179332, AW377672, AW179023, AW178905, AW179220, AA514188, AW378539, AW352171, AW352170, AW377676, AW177731, AW178907, AW179019, AW179024, AA514186, D80133, AW177456, AW177505, AW178906, AW360841, AW179020, AW178909, AW179329, AW178980, AW177733, AW378528, AW178908, AW178754, AW179018, C05695, AW352174, AW367967, AW179004, AW178914, AW378525, D80132, AW177728, D80302, AW178774, AW178911, AW378543, AW352163, T48593, AI557774, AW178983, D80439, AW352120, AA699681, AW178781, D80247, D80258, AW367950, AW177723, D80157, D51103, D58101, T03116, D51759, AA033512, AW378533, C06015, AL048680, AW178986, D58246, D59503, AW177734, D45260, R91284, C14975, C03092, H67854, AW378542, H67866, AA809122, AI535850, AI525923, AI535959, AW360855, AI525917, D59317, D80314, AA514184, AI525920, AL535686, A67220, A25909, D34614, D26022, AR025207, Y17188, X68127, AB012117, A85396, AR066482, U87250, A85477, A86792, A62300, A62298, X67155, I19525, A78862, A44171, D89785, A84916, AJ132110, D88547, S69292, X93549, I18371, X82626, AR018138, AF135125, AF058696, S78798, AR062871, I15997, AR037157, AR051191, A80951, X92518, AR008430, I68636, Y12724, A20702, AR062872, A43189, AR062873, A43188, A20700, AR008278, AR017907, AR064240, AR051190, A84772, AR067731, AR067732, A58522, A91750, A84776, A84773, A84775, A84774, AB028859, AR023705, X89963, A94995, AR060138, AR008443, A43601, I50126, I50132, I50128, I50133, X60736, AR066488, A45456, A82595, AR016514, Y09669, A26615,

HMSOW85	3547	827823	1 - 693	15 - 707		

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HMSOX47	3548	948202	1 - 742	15 - 756	D80193, D59619, D80253, D80196, D80043, D51423, D80210, D59927, D80219, D80240, D80391, D51250, D80366, D80195, D59889, T03269, D81030, D80227, D58283, C15076, D80045, D80022, C75259, D80188, C14014, D50995, D80038, D51799, D59275, F13647, D80378, D80134, AA285331, D81026, D59787, D59467, C14227, D80949, D80168, D80212, D50979, C14429, T11051, D80164, D80166, D59502, D59859, D59695, D80269, D80268, D58253, AI910186, D80024, D57483, T11417, D59610, AW178893, D80241, D81111, AW378532, D52291, C14331, AW177440, C14389, D51060, AW179328, AW178775, AA305409, AW352158, AW377671, AI905856, D51079, D51097, AI557751, D80522, AW178762, AW177501, AW177511, AW360834, D51022, D80014, AW378540, AW352117, AW360811, AA305578, AW176467, AW375405, D80251, AW378539, AW366296, AW360844, AW360817, AW375406, AW378534, AW179332, D80064, D80248, AW377672, AW179023, AW178905, AW179220, AA514188, AW352171, AW352170, AW378528, AW377676, AW177731, AW178907, AW179019, AW179024, AA514186, D80133, AW177505, AW178906, AW360841, AW179020, AW178909, AW177456, AW177733, AW378525, AW179329, AW178980, AW178908, AW178754, AW179018, AW352174, C05695, AW378543, AW179004, AW177728, D80132, AW367967, AW352163, D80302, AW178774, AW178911, AW178983, D80439, AW352120, AW178781, D80247, T48593, D80258, AW177723, AW378533, AI557774, D51103, T03116, AA033512, D58101, C06015, AW367950, D80157, D51759, AL048680, AW178986, D45260, D58246, D59503, AW177734, AW378542, C14975, H67854, C03092, H67866, AA809122, D80314, AI535850, AI535923, AI535959, AW360855, AI525917, D59317, AA514184, AI525920, AI535686, AI525227, AI525235, AI525913, A67220, A25909, D34614, D26022, Y17188, AR025207, X68127, A62300, A62298, X67155, AB012117, A85396, AR064482, A85477, A86792, U87250, I19525, A78862, D89785, A84916, AJ132110, A44171,	X55486, AR060138, A45456, Y09669, A30438, AR060385, AB002449, AR066487, Y11458, A43192, A43190, AR038669, AR066490, D88507, Z32749, I18367, D50010, AB033111, Y17187, A02712, A70867, A63261, Y11449, S70644, Y11447, AR008408, A95051, AR016691, AR016690. U46128, AR064706, I84553, I84554, M60510, A97211, A91754, AR031374, A49700, AR031375, A58521, AR020969, A38214, X58217, I56772, I95540, AR018924, A63067, A51047, A63064, AR018923, A48774, A63072, A48775, AR068507, AR068506, D13509, AR000006, AR015960, AR000007, AR015961, AR061736, AF130655, X73004, AR060133, AF019720, D14548, I19516, AB007195, A18053, I06859, A23334, A75888, I70384, A60111, A23633, A23998, A58524, A58523, I00074, D44443, D88984, AR018970, A95052, A18050, AR007512, AR036905, AJ244003, AJ244004, AJ244005, AR054723, A04441, A04442, A98767, A04447, A04448, A93963, A93964, I63120, AR043602, AR043603, AR043601, I66495, I66494, I60241, I60242, AR038762, I66486, I66487, A64136, A68321, AR000511, I14842, AR054175, U87247, I66498, I66497, I66496, I12420, AR054109, AB023656, A97171, A97217, D61405, U79457, AF123263, A64081, A24783, A24782, and AR032065.

					Accessions
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HMSOY61	3549	836082	1 - 377	15 - 391	
HMSOZ02	3550	918388	1 - 1147	15 - 1161	AC005874, and AF134471.
HMSOZ19	3551	958680	1 - 276	15 - 290	AA005234, AA131795, AI247788, AI247795, AA678394, H62467, H61493, AA131845, and AA242846.
HMSPA04	3552	922863	1 - 450	15 - 464	
HMSPA09	3553	948209	1 - 315	15 - 329	D80038, D81030, D80195, T03269, D80193, D59927, D51423, D59619, D80227, D80210, D51799, D80391, D80240, D80253, D58283, D80196, D80188, D80219, D80043, D80022, D80366, F13647, D59889, D51250, D59275, C15076, D80378, D80045, D80134, C14014, C75259, D50995, D80212, D80949, D81026, D59467, D59787, D80168, AA285331, C14227, C14429, D80164, D59502, D80166, D59695, D50979, D59859, D80268, D80269, D58253, T11051, AI910186, D80024, D57483, D59610, D81111, D80522, AW178893, D80241, T11417, C14331, D52291, AW177440, C14389, D51097, D51060, AW179328, AW378532, AW178775, D51079, AA305409, AW377671, AI905856, AW352158, D80014, AW178762, AW177501, AW177511, D51022, AW360834, AW352117, AA305578, AW375405, AW378540, AW176467, AW377672, AW179220, D80251, AW378539, AW366296, AW360844, AW360817, AW375406, AW378534, D80248, AW179332, AW179023, AI557751, AW178905, D80064, AW177505, AA514188, AW352171, AW377676, AW352170, AW177731, AW178907, AW179019, AW179024, AW178906, AA514186, D80133, AW179020, AW360841, AW378528, AW178980, AW178909, AW177456, AW179329, AW352174, AW177733, AW178908, AW178754, AW179018, C05695, D80132, AW378525, AW367967, AW179004, AW178914, D80247, AW378543, AW177728, D80302, AW178781, T48593, D58101, AW177723, AW378533, AW178983, D80439, AW352120, AW178781, AW367950, D80157, D51759, D58246, D59503, AW178986, AW177734, AA033512, C06015, AW367950, D45260, C14975, AW378542, C03092, H67854, AA809122, AI577774, AI048680, D45260, C14975, AW378542, C03092, D59317, D80314, AA514184, AI525920, AI535850, AI525923, AW360855, AI535959, AI67220, A25909, D34614, D26022, A62300, X67155,

HMSPA41	3554	951971	1 - 626	15 - 640	AR025207, A62298, Y17188, X68127, A78862, D89785, A84916, A85396, AB012117, AR066482, AJT32110, A85477, U87250, A86792, D88547, I19525, A44171, X93549, X82626, AR018138, AF135125, AF058696, Y12724, AR008278, AR064240, AB028859, S69292, A94995, I18371, AR008443, A43601, X89963, I50126, I50132, I50128, I50133, AR066488, AR062871, AR051191, A82595, S78798, AR016514, AR060138, A45456, Y09669, A26615, AR052274, AR066490, AR060385, A30438, I15997, AB002449, AR066487, AR037157, A43192, A43190, AR038669, A80951, I18367, X92518, AR051190, AR008430, D88507, X60736, D50010, A20702, AR062872, AR017907, A43189, AR062873, A43188, A20700, A84772, Y17187, A84776, A84773, A84775, A84774, AB033111, AR023705, Z32749, AR067731, AR067732, A58522, A91750, A70867, A63261, X55486, AR008408, AR016691, AR016690, U46128, M60510, D13509, AR060133, A64136, A68321, AR000511, AR054175, I14842, U87247, AR050680, AB023656, AF123263, U79457, AR032065, X93535, and AR008382.
HMSPB03	3555	922853	1 - 556	15 - 570	AL133063.
HMSPB63	3556	861264	1 - 590	15 - 604	
HMSPE92	3557	948104	1 - 545	15 - 559	D59619, D80253, D59927, D80193, D80195, D80196, D51423, D80210, D80391, D80240, D80227, D80043, D58283, D80219, D81030, T03269, D80366, D51250, D80022, D59889, D80188, C15076, D80038, D51799, D80045, D59275, D80378, F13647, C75259, C14014, D50995, D80134, D81026, D59787, D59467, D80949, D50979, C14227, AA285331, D80168, D80212, C14429, T11051, D80164, D59695, D80166, D80269, D59859, D80268, D59502, D58253, AI91086, D80024, D57483, D59610, T11417, D81111, AW178893, D80241, D52291, C14331, C14389, AW177440, D51060, D51079, AA305409, AW179328, AW178775, AW369651, AW378532, AW377671, AI905856, AW352158, D51097, D80522, D80014, AW178762, AW177501, AW177511, D51022, AI557751, AW360834, AW352117, AW360811, AA305578, AW176467, AW378540, AW375405, D80251, D80064, AW378534, AW179332, AW377672, AW360817, AW179220, AW375406, AA514188, AW378539, AW352171, AW377676, AW352170, AW177731, AW179023, AW178905, AW378539, AW352171, AW377676, AW352170, AW177731, AA514186, D80133, AW178907, AW179024, AW179019, AW178906, AW360841, AW179020, AW178909, AW177456, AW179329, AW178980, C05695, AW177733, AW378528, AW178908, AW178754, AW179018, AW352174, D80132, AW179004, AW178914, AW378525, AW367967, D80302, D51103, AW177728, AW178774, AW178911, AW378543, AW352163, D80439, D80247, AW178983, D80258, AW352120, AW178781, T48593, AW177723, AI557774, D58101, T03116, C06015, AW378533, D80157, AA033512, AW367950, D51759, D58246, AL048680, AW178986, D59503, AW177734, D45260, C14975, C03092, H67854, H67866, AA809122, AW378542, AI525923, AI535850, AI535959, AW360855, AA514184, AI525917, C14973, D59317, D80314, D59474, AI525920, AI535686, D59551, AI525227, AI525235, AI525925, AC005280, A67220, A25909, D34614, D26022, AR025207, Y17188, A62300, A62298,

HMVAJ53	3558	728009	1-388	15-402	X67155, X68127, AB012117, A85396, AR066482, A85477, A86792, U87250, D89785, A78862, I19525, A84916, AJ132110, A44171, D88547, X93549, AR018138, X82626, AF135125, S69292, AF058696, I18371, AR008278, Y12724, AR064240, AB028859, AR051191, AR062871, S78798, I15997, A94995, X89963, AR037157, A80951, X92518, AR008443, AR051190, AR008430, A43601, A20702, AR062872, AR017907, A43189, AR062873, A43188, A20700, A84772, A84776, A84773, A84775, X60736, A84774, I50126, I50132, I50128, I50133, AR023705, AR067731, AR067732, A58522, A91750, AR066488, A82595, AR016514, AB002449, AR060138, A45456, Y09669, A26615, AR052274, AR060385, A30438, AR066487, AR066490, A43192, A43190, AR038669, D88507, I18367, D50010, AB033111, Y17187, Z32749, A70867, A63261, AR016691, AR016690, U46128, X55486, AR008408, M60510, D13509, AR060133, AR054175, A64136, A68321, AR000511, I14842, U87247, AB012121, AB023656, AR008277, AR008281, U79457, AF123263, AR032065, X93535, and AR008382.
HMVAL74	3559	684574	1-518	15-532	AA504812, AF208502, L24051, and L12147.
HMVAT26	3560	789064	1-689	15-703	AF150282, AI276243, AW090199, AI022691, AI249193, and AI033035.
HMVAW08	3561	962197	1-280	15-294	AI580823, AA993162, AI472918, AI368750, AI453823, AA747678, AA888560, AW242191, AI350319, AA211927, AA725398, AA917463, AA742371, AA732102, AI218576, AI129408, AI474325, AA594345, AI310062, AI560613, AA056507, AA747426, AA905372, AI216359, AA405612, AA884092, AA879006, AI820689, AI150838, T32650, D20227, AA666388, R36652, AI372931, AI149128, AI963448, AA115748, AI290638, AW009341, AA524305, N32841, AI460321, AW076026, T24776, AA858246, T63577, AW118055, W31629, AW265569, AA676598, T63502, A85117, and AC005192.
HMVAY55	3562	574215	1-228	15-242	AI130740, AI131523, and AW016460.
HMVBA36	3563	698060	1-528	15-542	
HMVBD70	3564	735696	1-549	15-563	Z58983.
HMVBD84	3565	782910	1-333	15-347	
HMVBO01	3566	916072	1-665	15-679	AA416619, AA416601, D20128, AI368157, T49382, AI805024, AA600863, AA368659, AI572680, AW407679, AA984891, AA287823, H53109, AW407007, AA338474, AW021674, AA600127, AA804187, AA598497, AI281622, T57096, AA814748, AA658083, AA362439, N55296, AA846046, AA640563, AI567676, AA598579, H48017, AI745666, AA526665, F31670, AA055647, AA315052, AW243817, AW022796, AA548921, H47461, N21434, AI571094, AA353957, H52795, AI520984, AA587835, C14724, AA602664, AA364147, AA493546, AA126969, AA362440, T06339, AI679759, AA338238, AA457777, AW105463, AW273201, AW273146, AW392414, AA666195, AA143703, T15454, AI801479, AA668727, AA460880, AA604149, AI825901, AA831913, AA230221, AA665532, AA827490, F23221, AW162314, AA807704, AW162332, AL538404, AL036536, AI150934, AI221027, AI002863, AW439224, AA559208, AA338237, AI547110, N57782, AA488689, AA086042, AI031759, AI340941,

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HMVBO34	3567	735873	1 - 1157	15 - 1171	H79323, AA847341, AL038533, H79004, AA364082, AI926876, T03928, F04021, AI249853, AA368329, AA010265, AA984763, AI049680, H86399, R94436, AA729004, AA525156, AA429481, AA133293, AI370470, AA706628, N58527, AA420424, AW029626, T29263, AA206113, AI888050, AC004673, AC006370, AC006538, AC005180, AC005920, AC005537, AC002301, AC005574, AC004797, AC006317, AC006080, U91326, AL117694, AC002492, AL031983, AL035445, AL022315, AB020864, AL021391, AC005821, AP000469, AC003665, AC004738, AC010849, Z68276, AC006137, AC005212, AC005519, AL035086, AC006088, AC005325, M37549, AL022330, AF076450, AC000159, AL031427, AP000031, U73647, U85195, AC007421, AL031903, AC004777, AC005200, AL034421, AF003528, AC002377, AF196779, AC005746, AC007537, AL133355, Z99716, AC004032, AE000658, AL049869, AC005913, AC000353, AL109627, AC004525, AL022476, AC005837, AP000255, AC004854, AP000213, AP000135, AC005730, AP000114, AP000689, AC005071, AP000304, AP000260, AL033524, AC002400, AC006241, AC005066, AC005005, AB003151, AJ006995, AC004821, AC007746, AC006071, AL035588, AL031284, M63796, AC005736, X74984, D16583, AC004263, Z84723, AC002481, Z59890, AC004753, AC004997, AL031005, Z92544, AC006950, AC007766, Z73979, AC006474, AF130247, Z98036, AF165138, AL008987, AL096861, AL031670, AC007390, AC005099, AC004069, AC002554, Z97181, AL023580, AL022577, AC005039, AC005585, AC005828, AL096701, AC005041, AL139054, AC004447, U89336, AC004905, AL031255, AL023799, M27835, AC004134, AP000046, AL031663, Z54072, AC005682, AC007387, AL031575, AF132952, AL121655, AC004895, AF075069, AC005305, AC005543, AC004592, AC005914, AC005406, AC006544, AL021393, AC004650, AL078460, AC002464, AL109628, AC002306, AL049694, AC002316, AL035587, AP000247, AC006509, AC005225, AC006482, AC007528, AL096775, AC005822, Z82198, AC005902, AC005089, AL117258, M33320, AL033320, AL033527, L47234, AC006252, AC002369, AC002980, AL049569, AP000099, U02047, AC007130, D31884, AL049538, AP000036, AC005256, AC002077, AC000070, AC000082, Z98948, AP000337, AC004922, AL033533, Z84489, AC005895, AL035652, AC004897, AL024493, AP000243, AP000203, AP000503, AP000215, Z98744, AC004451, AC003007, AF196969, AL049699, AL034347, AL031680, AL049643, U91327, AL031280, AC002504, AC001231, AC005950, AF051934, AC005969, AL079342, AL031778, AL035685, AC012099, AC004832, AC005531, AC007462, AL049647, AC005747, AC005598, AL023284, AP000555, AC009516, AL021395, AF134726, AL132642, AC005209, AL049781, AC005296, AC005768, AC005284, AL049829, AC005632, and AC005323.
HMVBU26	3568	681408	1 - 516	15 - 530	AI498153, AC005578, AC004893, AL109758, AC005088, and AF030453.
HMVBV30	3569	861196	1 - 516	15 - 530	W48568.
HMVBW94	3570	883659	1 - 200	15 - 214	W16683.

HMVCG47	3571	719936	1 - 398	15 - 412	
HMVCO55	3572	868146	1 - 224	15 - 238	
HMVCR47	3573	661425	1 - 452	15 - 466	
HMVCT75	3574	715950	1 - 363	15 - 377	AL119355, AW392670, U46350, AL119319, AL119484, AL119363, AL119391, AL119497, AL119439, AL119335, AL119324, AL119457, Z99396, U46349, AL119483, AL119443, U46347, AL119522, AW372827, AW363220, AW384394, U46351, AL119444, AL119418, U46346, U46341, A81671, AR066494, AR060234, AR054110, and AB026436.
HMVCX10	3575	963828	1 - 461	15 - 475	N99112, AW452701, AA428994, and AA766700.
HMVCY46	3576	662311	1 - 359	15 - 373	AP000496.
HMVCZ64	3577	767714	1 - 350	15 - 364	AA323534.
HMVDA11	3578	861185	1 - 330	15 - 344	AB033030.
HMVDA30	3579	691608	1 - 306	15 - 320	
HMVDF10	3580	970480	1 - 348	15 - 362	AA306716, AI272308, N46300, AA533231, and AL122098.
HMVDF66	3581	915638	1 - 139	15 - 153	AA129862.
HMVDF83	3582	701907	1 - 344	15 - 358	
HMVDG76	3583	861179	1 - 409	15 - 423	
HMVDH06	3584	934778	1 - 113	15 - 127	
HMVDI38	3585	709243	1 - 769	15 - 783	N71412, W00789, N99736, T90278, N73838, and AL096710.
HMVDJ75	3586	710475	1 - 543	15 - 557	AL034384.
HMVDR49	3587	722581	1 - 367	15 - 381	AL034562.
HMVDT07	3588	952488	1 - 703	15 - 717	W38609.
HMVDU16	3589	904807	1 - 1328	15 - 1342	R89846, H61529, R89885, AA203599, H57092, AI567351, AI571551, AI919345, AI701074, AI590530, AI612759, AW103893, AI828731, AI554427, AI921248, AW082040, AI824557, AI745713, AI868831, AI569616, AI224992, AI475451, AI872711, AI476046, AW102785, AI249323, AI273142, AI281779, AW148320, AI950664, AI891157, AI682841, AI917055, AI433976, AI918655, AI269696, AW059837, AI590999, AI690312, AI632033, AI648663, AW103371, AI888953, AI520931, AI872545, AI873644, AI926790, AI640379, AI561299, AI697304, AW002342, AL079963, AW148716, AL036361, AI590120, AW088134, AI687065, AI923768, AI628292, AI867042, AI801325, AI335449, AI862144, AI289937, AL040243, AI251830, AI887151, AI636719, AI539153, AA640779, AI866608, AI886124, AW238730, AI612920, AI364788, AI633419, AI445165, AW082060, AW162071, AI815855, AW302988, AI269862, AI572676, AW161579, AL038445, AI610645, AI863477, AI800453, AL036403, AI680498, AW129202, AA613907, AI498579, AI866002, AI623396, AI696612, AI274508, AI284509, AI499285, AA508692, AI890833, AI805638, AW150578, AI564719, AI952360, AL045266, AI889376, AW403717, AI524671, AI249257, AI521012, AW051258, AI254251, AW132056, AI619502, AI571909, AI677796, AI802542, AI702433, AI591316, AI922901,

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AI612843, AI491852, AW169653, AI312428, AI281772, AW304497, AI925196, AW169671,
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AI925156, AI539808, AL036802, AI589267, AW195968, AW068845, AI633308, AI469119,
AI630747, AI869367, AI475947, AI784252, AW087445, AI468872, AI608936, AI336575,
AW075413, AW088903, AA225339, AI885974, AI282504, AI439717, AI308035, AI433384,
AI538085, I48979, I48978, I89947, A08916, A08913, AL050393, A93016, I89931, I49625,
AF113676, S78214, AF090934, AF118070, AL137527, A08910, AL133093, AF090903,
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AL049466, AL080060, AL122121, AL137550, A65341, Y11587, AL133080, AF113013, A08909,
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AF113691, U00763, U42766, U91329, AL049452, AF111851, AJ238278, AL133557, AF113694,
A58524, AF017437, A58523, AF177401, AL049938, AL117583, AJ242859, AL117460,
AF090900, AF125948, L31396, AL110225, AL117394, AL122093, L31397, X96540, E07361,
AL137283, AL050277, I03321, AF118094, AL137463, AL137538, AL050138, AL049300,
AL133113, AL049382, AF183393, AL117435, AL049430, I42402, Z82022, AL137648, A77033,
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X93495, U35846, X72889, X65873, AF061943, AL122110, U67958, AL080159, AF087943,
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HMVDW09	3590	1 - 307	15 - 321	
HMVDZ70	3591	1 - 1205	15 - 1219	AW003291, AA927510, AA552415, AA210860, AW295775, AW450098, H14682, AW451140, AW450099, AA768028, AA323759, AA325907, R18955, AA588782, AA326001, AA736511, AA045961, AA768029, AW294299, R43963, AI923497, AI204450, AI609388, AI766770, AW075933, R50434, AA045960, T99804, AA325957, AW028853, R50435, AA573803, AW388521, H58575, AA190436, AW388475, AA299925, AI673040, AA534412, T99909, AI798620, AI743143, AI745610, AW167112, AI952808, AI751485, AA609752, AI743323, AL137509, and AF207550.
HMVEA91	3592	1 - 210	15 - 224	T93923, AA693730, AA693709, and AA780005.
HMVEF33	3593	1 - 325	15 - 339	
HMVEH72	3594	1 - 292	15 - 306	U69274.
HMWBE16	3595	1 - 243	15 - 257	
HMWBG29	3596	1 - 251	15 - 265	AL049844.
HMWBI47	3597	1 - 328	15 - 342	AW405398.
HMWBK07	3598	1 - 43	15 - 57	
HMWBK24	3599	1 - 204	15 - 218	AA630672, AA487621, AA579179, AA779013, AW148507, AA127426, AW270343, AA618452, AA299189, AA101689, AW085855, AI382825, AA080866, AI459245, AA410788, AL037554, H53828, AI056177, H96467, AA018283, AW179306, AI434695, R31790, AA553720, AA522642, AW341869, AI733856, AW439555, AA439136, AA114077, AA487888, AI343864, AA828062, AA572713, AA320966, AI421755, AA610219, AA297666, AP000556, AC006153, AP000557, AL121652, AC006511, AC005037, AC005548, AL021407, AC000085, AC007707, AL034402, AL080243, AC006539, AC009464, AC007270, Z98752, AC006313, AL034549, AP000042, AP000110, AC007671, AC006050, AL022320, AC008079, AC002468, AC004815, AI022476, AC007057, AL031670, AL020995, AC008038, AC011504, AC007193, AP000359, AL031666, AC005058, AC001311, Z99716, AF029308, AC006210, AF111169, AC005971, AC002310, AC007055, AC004890, AC005011, AC006012, AL008725, AC004823, Z97352, AC012627, AL049761, AC004205, U66059, AC000025, AL117355, AC008072, AC004030, AL050318, AC004686, AP000226, AL031311, AC007242, AC008014, AF196779, AC005369, AC005158, AC004894, AC005565, AL110292, Z98048, AL031589, AC004263, AC004148, AC005484,

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HMWBM09	3600	967687	1 - 381	15 - 395	AC007688, AL132992, AP000432, AC007546, AL109627, AC005900, Z85996, AC004966, AC004593, AC004028, AC009516, AC005581, AP000558, AC005796, AC005527, AC005632, AC003109, AC005412, AC002395, U95742, AC004020, AL049653, AC004386, AC005972, U95739, AC006277, Z97181, AL023755, AL021155, AL050308, AC010722, AC005844, AP000512, AP000511, AC006040, U91326, Z97056, U78027, AL079295, AC005529, AF117829, AC007565, AF134726, Z83826, AC004478, AL031577, AC006211, AC000364, AC005863, AP000087, AC002425, AC008040, AC003029, AC002492, AF141309, Z94056, AC007919, AC005839, AC007425, AC005243, AL035252, Z97054, Z93017, AL050341, AP000009, AL008718, U91318, AL109967, AC020663, AC005031, AC005291, Z78022, AL133245, AL022146, AC004073, AC006023, AC013248, AC006130, AC006576, AC007773, AL033397, AC004388, AC002558, AC004230, AC008101, AP000555, Z84483, AC004999, AC003003, AL022329, AC006285, AC016831, Z84469, AC004381, AL008582, AC006271, AC005730, AC005081, AL121694, AL121825, AC002115, and AL121654.
HMWBN56	3601	745698	1 - 442	15 - 456	AL121534, H05681, T09309, N36636, AA853335, AA216518, AA115428, AA188847, AA404726, AF151803, and AL049839.
HMWBO07	3602	839560	1 - 490	15 - 504	AA025913, H26505, AW080056, AA122271, AA495850, AA078104, AB011110, and AC004084.
HMWBR86	3603	731650	1 - 337	15 - 351	
HMWBV45	3604	861152	1 - 349	15 - 363	
HMWCG29	3605	723779	1 - 212	15 - 226	AA350169, AA207226, AL039395, AL039395, AA359708, AA371441, T84879, AA019568, AA307901, R35023, R59278, AA371174, AA359314, AA359967, and AL050286.
HMWCQ09	3606	924634	1 - 534	15 - 548	AI583448, AI252010, AI252880, N40760, AA601674, AA129746, H94878, AA533054, AA550850, AA207152, AA564479, AA084230, AI654305, AA602906, AC000353, AL132712, AC005567, Z84487, AC005360, AL035603, AC005737, Z84469, AC007731, AC004033, AL031255, AC005500, AC005531, AL008718, AP000355, AC006509, AP000553, AC007686, AL049539, D87675, AC002069, AL035659, AC007199, AL050306, AC005828, AC008127, AC004263, AL035405, AC006359, Z98200, AL008583, AC005740, AC005049, AC003667, AC005952, Z82190, AP000314, AC006006, AC005919, AC005899, AL035071, L47234, U91322, AL133246, AC005535, AC003070, AB003151, AL031685, Z99716, Z99943, AC005048, AC005233, AC002395, AC004851, AC004912, AL078595, AC007166, AL049709, AL031311, AL133485, Z93096, AC006111, U91321, AC007919, AC005399, AL109984, AF001550, AC002302, AF001548, AC000085, AL121652, AC005387, AC004583, AL008582, AC006112, AC005284, AL139054, AL110505, AL031447, AL049778, AL035447, AL080243, AC008115, AC004234, U91326, AL008630, AC006075, AF132033, AC006958, AF160252, AC007773, AC005596, AL022163, AC006011, AP000194, AC002455, AC006160, and AC005237.
HMWCQ58	3607	738372	1 - 585	15 - 599	AA814994.

HMWCV08	3608	960083	1 - 287	15 - 301	R71737, AA904211, AI537108, AI354333, AA775188, AA341865, AI754066, AI554405, AI690497, R39329, AA604495, AA373107, AA598605, AA362791, AA372669, AI049630, AW054936, AC005225, AC006064, AP000688, Z99716, AC006241, AC005839, U91323, AF024533, AC005971, AC005920, AC007666, AC007793, Z93783, AC000052, AC002312, Z83845, AC006211, AC006449, AC005666, AC004019, AC004491, AL008637, AC004983, AF036581, AC005696, AF064090, AC005516, AL121658, AC005229, AJ003147, AL049829, U91321, AF134726, AF102137, AC000134, AF222686, AL109865, AC006312, AL049636, AC004526, AP000553, AF108459, L44140, AF111169, AL049830, AC004030, AL050348, AC004975, AL121694, AC004851, AL078593, AC008040, AC002350, AC002565, AC004814, AL049394, AF200465, AF053356, AL021939, AC005924, AL031279, AC006057, AC007488, AC005015, Z98200, AL035071, AC004771, AC004531, AF196779, U89335, AL022326, AL035086, AL023807, AL049776, AL031659, AL031311, AL031053, AC005911, AC004890, AC005787, AF045555, AC002470, AL049709, AL121782, AP000104, AC007938, AC005527, AC007225, Z49258, AL031597, AL033538, AC005899, AL049538, AL022313, AL132712, AB023048, AL031291, AL136295, AC005288, AL136168, AC007393, AC004874, AC005228, AC004929, AC006552, AC007707, AL135746, and AL031283.
HMWCX60	3609	531395	1 - 294	15 - 308	
HMWDD54	3610	932261	1 - 598	15 - 612	
HMWDD75	3611	800023	1 - 304	15 - 318	AI809080, AA379813, AI924837, AI609008, AI492061, AI080471, AA860342, AW273457, AA723182, AW170759, U46317, AI693837, R68374, R27368, AA579485, AI809655, AA173648, AI280048, AA173958, AA903598, AA187926, AI674623, AA653977, AA182901, F31240, AB020860, L46722, and U21855.
HMWDF88	3612	906769	1 - 349	15 - 363	H94922, R78249, AA448990, R14119, and N47060.
HMWDH23	3613	676216	1 - 397	15 - 411	
HMWDL52	3614	921603	1 - 368	15 - 382	AI248959, AI969858, AA210772, AI935498, AI023405, AW139513, AI914255, and AF161349.
HMWDQ83	3615	558021	1 - 331	15 - 345	M86156, AI383528, AI648449, AA708182, AW149204, AI565505, AI569929, AA830935, AF136415, AI915216, AW025607, AA635323, AI269112, AI301909, AI808701, AW275607, AI268340, N86439, AC004692, AC004389, AL022150, AF022141, AJ229041, AC008372, AC005164, AC006957, Z70272, AC004103, AC004217, AL049710, AL080273, AL031585, AL050311, Z83745, X63690, AJ006997, AL096770, AC009308, AC005900, AC011422, AL035563, AC005532, AL049834, AC000060, AL021026, AC006152, AL133247, AL022154, AC005191, AC000113, AC006384, Z96074, AL122127, AF121782, AC006972, AC005376, AL049734, AF064857, AC007656, AC007313, AL020989, AL118497, AC004506, AL049563, AL118503, Z97055, AL121657, AC009399, AL136297, AC006984, AC002507, AL021068, AL136130, AC002368, AF121899, AC005537, AC006153, AL031965, L42098, U85195, AL050308, AE000658, AC006658, AC004963, AP000161, Z98052, AL023582, AC002366, AF001905, AC006083, AC006083, AC000065, AL022401, AL008633, AP000855, AC004981,

HMWDW60	3616	712083	1 - 302	15 - 316	AP000949, AL080277, Z98755, AL049647, AC006600, AL031121, Z82211, AC005245, AL021307, AC005483, AC006054, AC004941, AL049871, AC007563, AC006928, AC005393, Z95328, AF130247, AC005162, AC005993, AL049767, AC004843, Z98948, AC004384, AC004066, Z47556, AL022157, AF165138, Z84476, AL133512, AC007102, AC005915, AC002526, AF114156, AC010169, AL132708, AC006151, AC005536, AL035467, AC003013, AC005701, AP001067, AL121595, AL109759, AL035079, AC009501, AC005201, AF003627, Z82212, AL096704, AC003084, Z49918, AC006257, AC007567, AP000965, AP000459, AC005036, AC000029, AL121576, AF172277, AL031230, AF201337, AL035451, AJ011930, AC004993, AL031116, AC010382, AC005509, AL121838, AP000150, AC004038, AC007934, AF117829, AC005337, AC005999, AP000009, AL030998, AC010200, AC005070, AC003683, AC009479, AC006369, AC007298, Z82975, AC002545, AP000457, AL034403, AC004677, AL049549, AC004551, AP000704, D87010, Z83820, AL022577, Z83848, AL110505, AL008728, AC006976, AC009286, AF070718, AC006149, AP000022, AC007564, AF003528, D87009, AC008071, AF118808, AC002492, AC007128, AP000163, AC004074, and AC004020.
HMWDY93	3617	573513	1 - 371	15 - 385	AL137658, and AC005343.
HMWDZ73	3618	573754	1 - 221	15 - 235	
HMWDZ77	3619	573494	1 - 237	15 - 251	AA552576.
HMWEE04	3620	709334	1 - 312	15 - 326	AA158500, H50330, H43516, Z44332, Z60555, and Z65232.
HMWEG24	3621	781017	1 - 561	15 - 575	AI760719.
HMWEJ73	3622	767384	1 - 360	15 - 374	AW328173, AW152205, AW385309, AA279517, AI167428, AA452524, W65387, AI745322, T63422, AI826716, AI978981, AI818495, W61291, AA828979, AW410086, AA098876, AA364030, AA773566, AA093538, AA098877, AA886992, AJ007398, AC007226, and AC007371.
HMWEK11	3623	967362	1 - 925	15 - 939	Z46095, AA458817, AA601434, AA340097, AA364315, AL008729, AC004510, AC004791, Z85986, AL022400, AL135783, AL049797, AC003101, and AP000962.
HMWEK39	3624	573604	1 - 235	15 - 249	AJ224170, AJ224166, AJ224169, AJ224168, and AJ224167.
HMWEM85	3625	783973	1 - 376	15 - 390	AA913138, AA423926, AA913371, AI223267, AI313130, AW451350, AW402718, AA825964, AA831628, AA954510, AW151296, AA813817, L44288, AW450780, AI470126, AW241985, AW117223, AI080479, AW169986, AA482277, AA482179, W07615, AA535546, AA469966, N50150, H92386, R88465, AI080018, and H02524.
HMWEP07	3626	953749	1 - 806	15 - 820	AA026434, AA026362, AW371765, and AB002340.
HMWES31	3627	861129	1 - 303	15 - 317	
HMWFC21	3628	752826	1 - 363	15 - 377	AC002398.
HMWFE01	3629	917150	1 - 122	15 - 136	

HMWFH47	3630	738220	1 - 473	15 - 487	T86765, AA355300, AA262872, AA313285, W39312, AA373610, AA314442, AW327419, N28311, W26959, AW246991, AA147465, AI193121, AA143349, T85873, AA026924, W02364, AA355802, AW160522, W02991, H11880, C04326, N28909, AW162940, AA112862, AA147394, AW190189, AI369463, AW246218, AA079419, AA156348, and AF132959.
HMWFI54	3631	573598	1 - 262	15 - 276	
HMWFO10	3632	954979	1 - 177	15 - 191	
HMWFP33	3633	702618	1 - 200	15 - 214	AC002454, and AL118497.
HMWFP60	3634	576880	1 - 443	15 - 457	H71678, AA568314, AW419389, AI889696, AA602906, AI613389, AW151824, AA593501, AI271762, AA622801, AA502207, N73060, AA610433, AI791475, AL042373, AA152404, AW237905, AW023111, AI251429, AW117740, AA708678, AW177869, AA644090, F17700, AA747757, AA347969, AA077776, AI187148, AC005726, AC004750, AC004647, AC005046, AC002120, AL031670, AP000115, AC005412, Z94056, AL050348, AC005015, Z83844, AC006130, AC007263, U91323, AP000501, AF207550, AC005004, AC006006, AC005039, AL121603, AL109628, AC007240, AP000694, AF126403, AL049830, AC004975, AC003982, AL031283, AL049712, AC004832, AP000047, AC005695, AC000118, Z95115, AC006449, AC006146, AC005081, AP001056, AC007199, Z98742, AL096701, AL139054, AL096774, AC005209, AL132712, AL049569, AC005625, AC004139, AL035443, AC005696, AC005391, AC007845, AC007151, AL109627, Z84488, AP000305, AC002425, AC007934, U91326, AC005730, AC006487, AF108083, AL035681, AL031657, AC016025, AC004622, AC002347, AC004583, AP000120, AF109907, AL031281, AC003070, AL031846, AC007450, AC003108, AC006120, Z95152, AC002470, AC006271, AC005736, AC005971, AC007686, Z83838, AL031591, AC007687, AC004858, AC005971, AC002059, AC002365, AC006050, Z82180, AC007114, AL121658, AL031587, AL135783, L78810, Z83826, AC007283, AF196969, AC004966, AP001051, AC006530, AC020663, AL133163, Z84466, AC005291, AC006388, AJ246003, AC006101, AL035400, AP000556, AL133246, AL021393, AC005486, AC005193, AL034423, AC000025, AC008012, AC005684, AC005251, AC004887, Z85987, Z93241, AL031597, AP000167, AP000052, AC003043, AL109984, AP000552, AL024498, AC002302, AP000553, AC005220, AF038458, AD000091, AC007052, Z97181, AC004841, AC007993, AP000503, Z85986, AC005969, AC006960, AL035683, AP000555, AC005972, AL031295, D88268, U62293, AC005778, AC005531, AF129756, L44140, AC003688, AC005529, Z98752, AC004509, AC004253, AL049757, AC006236, AC005666, AC005057, AB020864, Z83840, U95742, AL022237, AC005940, AC003037, AC004765, AL049694, AC007546, AC006430, AC004601, Z98036, AC004791, AL021155, U91322, AB020866, AL009181, AL034582, AL022302, AC002375, AC005003, AC004813, AL121652, AL005943, Z84480, and AC005839.
HMWFQ91	3635	573551	1 - 251	15 - 265	AA453990, and AI696031.
HMWFR11	3636	967371	1 - 113	15 - 127	AL022318.
HMWFU05	3637	861119	1 - 319	15 - 333	

HMWFU85	3638	659578	1 - 658	15 - 672	AA476558, AI744905, and AL035977.
HMWFW75	3639	727236	1 - 225	15 - 239	AC004878, AC006014, AC006480, AC005488, and AC005071.
HMWGC08	3640	959838	1 - 500	15 - 514	
HMWGF22	3641	861104	1 - 351	15 - 365	
HMWGG55	3642	920575	1 - 313	15 - 327	C16083, AR031682, and AR050617.
HMWGK95	3643	576885	1 - 362	15 - 376	
HMWGQ80	3644	575822	1 - 537	15 - 551	R69751, R70467, H80879, H80878, H69771, AJ011930, AL049835, Z95126, Z94277, Z84481, AL023279, AL022152, AC002071, AC010186, AC005303, AC004985, AL008706, AL034545, AC004825, AL035466, AC006007, and AL023579.
HMWGT07	3645	953454	1 - 946	15 - 960	AA292171, AI194002, AI291200, AA702786, AA935514, AW149691, AW134516, AI570407, N52183, AI470179, AI301560, AI565962, AI263083, AA442075, AI262533, AI953743, AI992355, AA725905, AI458151, AI057281, AI350058, AI765586, AI300345, AI147626, N22467, AW083096, AI304886, AI818816, AI298938, N31044, AA442178, AA251570, AA411536, AI917092, AI984370, AI200607, AW241665, AW270856, AI298116, AI948774, AI693857, AI337892, AI216845, W92870, W35349, AW275375, R64446, AW340470, F09033, W92747, AI215812, R56870, AA854471, W32863, R63834, AI340931, AA573328, AA251002, R26470, R28480, H39705, AA737193, AA737108, H61908, and AI348059.
HMWGU64	3646	823460	1 - 415	15 - 429	AI872915.
HMWGV63	3647	576854	1 - 224	15 - 238	
HMWGX38	3648	709249	1 - 395	15 - 409	AW449350.
HMWGX50	3649	959293	1 - 1759	15 - 1773	AI823360, N76186, AW444682, AA199658, AI090198, AI374757, N64773, AI769715, N53704, W49490, AI026060, AI801785, AA961099, W49491, AI190947, AI287331, AI742199, AI769707, AI219372, R72390, R63399, R69629, R69723, AA064629, H18928, W73451, D20803, AA527475, AI187711, AI472100, W73390, H19367, AA064753, R63455, and AI093177.
HMWHA91	3650	684346	1 - 315	15 - 329	
HMWHB03	3651	861108	1 - 371	15 - 385	AA654781, AI754544, R73754, AW080185, AA584125, AA531580, R08918, AA845209, AA487726, AW081194, AA633762, AL037910, AW341978, AC004690, AC019014, AL080248, U78045, AC007981, AC006120, AC004953, U41069, AC004854, AL133238, AC008062, AL021978, AL022336, AP000556, AC004805, AC005377, AC009721, AF109907, AC008018, X92412, AL021579, AL031659, AC006343, AC005144, AI022312, AC006130, U85195, AC006006, AC003102, AL035464, AC012330, AE000658, AC006146, U52112, AL022313, AL049872, AC004590, AC008132, AC008079, AC004531, Y14768, AC005887, AF129756, AC005871, AP000550, AC005752, AL032821, AC004859, AL121591, AP000557, AL034548, AC005175, AC000381, AC007421, AP000505, AC005800, AL021154, AL136295, AC004752, AC000094, AC007546, U85196, AC003663, AC007325, X69516, AP000240, Y15994, AC003950,

HMWHF58	3652	584538	1 - 424	15 - 438	AL035417, AC004966, AL008723, AC008115, AC005043, AC006459, AC005353, Z77249, AL009172, AC004993, AD000813, AL049765, AC004033, and AC006478. AI763355, AI911988, AW271204, AI419935, AW196356, AA831500, AA705874, AI609777, AI632367, AA825907, AI247514, AA897761, AA029912, AW088307, AA059231, AA883186, N72988, Z40302, W03289, H82082, W57671, H61166, AW264318, F01458, AI270229, AI932770, AW070350, F04303, AI318375, H93492, AI304462, AI304550, AI270299, R93209, AW369598, and R07861.
HMWHM30	3653	676413	1 - 320	15 - 334	AP000333, and AP000173.
HMWHN70	3654	851334	1 - 342	15 - 356	R19936, AI653255, AI261658, W78776, T85433, AA309754, H16895, AA132626, AA216686, AI636091, AA160797, AA312101, T69055, T35768, and AI347190.
HMWHS25	3655	678166	1 - 323	15 - 337	AL031685.
HMWHZ50	3656	724431	1 - 496	15 - 510	AC006427.
HMWIA18	3657	424132	1 - 342	15 - 356	AA011418, AI264860, and AA699615.
HMWIF10	3658	964707	1 - 441	15 - 455	AA056297, H86332, H81699, AA021646, AA828136, AA252828, AW366161, AW366143.
HMWIL67	3659	791275	1 - 771	15 - 785	AW366126, AW366153, AW366129, and AB032976.
HMWIM26	3660	681845	1 - 300	15 - 314	AW236288, AF045555, and AC005081.
HMWIQ47	3661	653198	1 - 364	15 - 378	AB011167.
HMWIS96	3662	746475	1 - 680	15 - 694	AI160190, AA226732, AA232883, AA232882, AA948725, AI079958, AA767922, AI467979, W39443, U83194, and AF121856.
HMWIT95	3663	793450	1 - 422	15 - 436	AA203110, AA465513, T96285, AI682937, and AA337698.
HMWIU48	3664	917690	1 - 437	15 - 451	AC004913.
HMWIV48	3665	795649	1 - 364	15 - 378	AA939053.
HMWIX21	3666	670972	1 - 201	15 - 215	AB011085.
HMWIZ03	3667	924227	1 - 283	15 - 297	T24065.
HMWJB29	3668	668700	1 - 342	15 - 356	AA300776, AA341396, AJ225022, and AF030428.
HMWJC76	3669	688926	1 - 393	15 - 407	AA102161, T68018, N86357, and AF144757.
HMWJF10	3670	964705	1 - 339	15 - 353	
HMWJG85	3671	918724	1 - 509	15 - 523	
HMWJH15	3672	757807	1 - 211	15 - 225	
HMXAA03	3673	964494	1 - 60	15 - 74	N24413, and AA325761.
HMXAA08	3674	959267	1 - 213	15 - 227	R16911, AI023774, AC005509, AL135960, and AJ131016.
HMXAA39	3675	670501	1 - 212	15 - 226	AI766637.
HMXAA56	3676	733331	1 - 42	15 - 56	
HMXAB21	3677	714384	1 - 122	15 - 136	AI908994, AI908999, AI909070, AI909069, N34111, AI908998, AA365524, AA143042,

HMXAB69	3678	661849	1 - 136	15 - 150	AI908987, AA365526, AI909065, H69944, AI909066, AI908986, W37554, AA291887, AI909072, AL049386, and AL133036.
HMXAC70	3679	964492	1 - 138	15 - 152	AL024509.
HMXAC83	3680	780385	1 - 105	15 - 119	M85519, and AC005625.
HNEAB76	3681	674781	1 - 242	15 - 256	AC004620.
HNEAC51	3682	523767	1 - 422	15 - 436	AA701643, and AI033306.
HNEAJ21	3683	671370	1 - 341	15 - 355	
HNEAJ57	3684	735083	1 - 341	15 - 355	AW000777, and AL031005.
HNEAK41	3685	711557	1 - 227	15 - 241	
HNEAN61	3686	507302	1 - 200	15 - 214	
HNEAN85	3687	524222	1 - 384	15 - 398	AI709236, AI219619, F18454, and AC005531.
HNEBI66	3688	529168	1 - 249	15 - 263	
HNEBJ08	3689	958742	1 - 899	15 - 913	AI914747, AI371165, AI537814, AI111171, AC002302, AC005666, AL109798, AC004841, AC004938, AC004217, AL020997, AC004383, AF001549, AL035460, AC007216, AP000501, AC005529, AP000505, Y14768, AC004159, U62293, AL022165, U63721, Z95115, Z97630, AL049631, Z85996, Z84469, AC009516, AC000353, AC005057, AL133485, AC004634, Z84466, AC005911, AF129756, AP000049, AC007686, AC004817, AC004887, AC005332, AC006211, AP000311, U91323, AL049569, AC007057, AC005531, AC002115, AC002301, U95742, Z95152, AC005520, AC004491, AC000026, AC005355, AC004230, AL023807, AL034548, Z73359, AL031311, AP000689, AL031657, AC002059, Z95116, AC008044, AC007993, AP001065, AC004876, AC005581, AC005102, AL022721, AC005071, AC008018, AC005765, AF121781, AC005781, AL035414, AP000215, AL022326, Z97056, AP000350, AL035685, AC004985, Z97053, AC005871, AC004000, L78810, AC005005, AC006101, AC005803, AL049699, AL022163, AB003151, AC004765, AC002425, AL109984, AC004020, Z98051, AC009247, AC005585, AL035659, AL096763, AC004966, AC004685, AL049872, AC008372, AC004750, L44140, AC005527, D87675, AC007384, AC002430, AC002544, AP001052, AC002369, AC004832, AP000039, AP000107, AC005280, AL022323, AC002073, AC006450, AL133163, Z99128, AL031650, AC005620, AL023575, AC004228, AC004991, Z98750, AC006538, AP000047, AL096791, AL021393, AC002299, AC005722, AL132987, AC005815, AC005037, AF107885, AP000498, AC003982, AC005200, AC005777, AC007421, AC005261, AC005086, AC004656, AL034417, AC002477, AC006057, AL049856, AL008721, AC002551, L78833, and AC005952.
HNEBJ35	3690	529576	1 - 303	15 - 317	
HNEBJ48	3691	919274	1 - 515	15 - 529	
HNEBM07	3692	954173	1 - 637	15 - 651	

HNEBY19	3693	527894	1 - 341	15 - 355	
HNEBY26	3694	527891	1 - 318	15 - 332	
HNEBY30	3695	523571	1 - 316	15 - 330	AA047509, AA649294, AA743885, and AA714682.
HNEBY32	3696	527889	1 - 392	15 - 406	AJ902200.
HNEBY34	3697	507211	1 - 483	15 - 497	
HNEBY44	3698	773793	1 - 422	15 - 436	
HNEBY46	3699	527887	1 - 395	15 - 409	AC006006.
HNEBY48	3700	527895	1 - 308	15 - 322	AL021977.
HNEBY71	3701	527883	1 - 245	15 - 259	
HNECD65	3702	861062	1 - 511	15 - 525	
HNECE07	3703	954094	1 - 370	15 - 384	AI017707, AI733633, and AC006001.
HNECE14	3704	927590	1 - 94	15 - 108	
HNECF59	3705	507208	1 - 102	15 - 116	
HNECF76	3706	506532	1 - 326	15 - 340	
HNECI57	3707	529873	1 - 165	15 - 179	
HNECK47	3708	720588	1 - 331	15 - 345	
HNECK66	3709	932501	1 - 374	15 - 388	AC002073.
HNECK67	3710	527100	1 - 398	15 - 412	AA836909.
HNECK83	3711	935045	1 - 684	15 - 698	
HNECL71	3712	527810	1 - 221	15 - 235	
HNECM64	3713	861031	1 - 289	15 - 303	T79573, AA525832, AA381390, AI207738, AA503018, AL039801, T79503, AA601713, AI862790, AA319995, AA856945, AA381962, AI434365, H23540, AA223512, AA297145, AA629852, AA765678, AA487892, AA829576, Z84487, AL050348, AJ229041, AL136295, AL133312, AC002302, AL022336, AC004638, AC004098, AC005005, AC004910, AC005030, Z93016, AC004526, AC003003, AL031680, AC002389, AC005037, AC002378, AC007226, AC006160, AL031668, AL121655, AL008583, AL031602, AL035071, AL121658, AC002390, AC000159, AC005378, U73023, AC002350, AP000511, AC000403, AC001231, AL121653, AC004882, AL050307, AB023051, U47924, AL009181, AC005212, Z82208, AF196969, AC005102, AC006509, AC007537, AC004212, AC006064, AF015720, AC006512, AP000512, AC004922, AL031281, U52112, AL022396, AL031230, AC007159, AC005859, AL034553, AC007308, AC005874, AF134471, AC004865, AC002470, AC007283, AC002544, AC004985, AC000113, AC006030, AC005529, AC012083, L48038, AC005225, AC007731, AC005500, AL031432, AC007868, AC007690, AC005332, AC005089, AL024507, AC006449, AP000504, AF129756, AC004382, AL022238, AC004448, AC005399, AC006065, AC002375, AC006262, AD000812, U91326, AD001527, AF111168, AB003151, AC006581, AC004491, AL049636, AC006084, Z73417, AC005881, AC011311, U80017, AC005386,

					AF091512, AC006059, AC004148, AC003982, AL024498, Z83844, AJ003147, AC000026, AL008719, Z93023, AC005912, AL096701, AC005071, Z68164, AC007276, AC006088, AL008715, AC005244, AL022476, AL049869, and AL049712.
HNECO69	3714	861068	1 - 154	15 - 168	AC004974.
HNECR93	3715	529868	1 - 287	15 - 301	
HNECS77	3716	527511	1 - 487	15 - 501	AI907658, and AW176803.
HNECT70	3717	958356	1 - 289	15 - 303	
HNECV31	3718	466977	1 - 290	15 - 304	
HNECV66	3719	575633	1 - 322	15 - 336	
HNECW09	3720	968378	1 - 482	15 - 496	AC004034, and AC004235.
HNECW20	3721	527508	1 - 493	15 - 507	AC008928.
HNECW35	3722	855430	1 - 409	15 - 423	AW407366, and AA278963.
HNECX77	3723	507305	1 - 350	15 - 364	W60940, AF019563, and AD000833.
HNEDD27	3724	527589	1 - 377	15 - 391	AC004797.
HNEDD80	3725	507186	1 - 399	15 - 413	AI692616, AL080276, AC004829, AL021921, and U95738.
HNEDD90	3726	789187	1 - 351	15 - 365	
HNEDE48	3727	721895	1 - 265	15 - 279	
HNEDE59	3728	527060	1 - 264	15 - 278	
HNEDF71	3729	572390	1 - 120	15 - 134	
HNEDG11	3730	967643	1 - 243	15 - 257	AD000864.
HNEDG35	3731	790570	1 - 540	15 - 554	
HNEDG56	3732	746708	1 - 325	15 - 339	
HNEDH54	3733	527505	1 - 318	15 - 332	
HNEDH96	3734	697747	1 - 678	15 - 692	
HNEDI80	3735	573138	1 - 353	15 - 367	AC005306.
HNEDK04	3736	923910	1 - 139	15 - 153	AA299540, AC000159, and AB007864.
HNEDK16	3737	702570	1 - 433	15 - 447	AA299540, AW363833, AC000159, and AB007864.
HNEDK22	3738	527503	1 - 365	15 - 379	
HNEDK74	3739	765880	1 - 225	15 - 239	
HNEDN42	3740	527499	1 - 179	15 - 193	AC005222.
HNEDO95	3741	573136	1 - 258	15 - 272	
HNEDQ51	3742	527816	1 - 321	15 - 335	
HNEDQ68	3743	586485	1 - 1038	15 - 1052	AA525825, AA868356, AW105002, and AW022273.
HNEDR48	3744	683470	1 - 153	15 - 167	
HNEDS03	3745	925091	1 - 113	15 - 127	
HNEDS18	3746	954586	1 - 140	15 - 154	

HNEDS29	3747	703032	1 - 221	15 - 235	
HNEDU01	3748	909832	1 - 403	15 - 417	
HNEEA41	3749	868102	1 - 264	15 - 278	
HNEEB62	3750	573185	1 - 441	15 - 455	AL133037.
HNEEB84	3751	781940	1 - 211	15 - 225	AL031729.
HNEEC81	3752	844318	1 - 352	15 - 366	
HNEED12	3753	893698	1 - 583	15 - 597	AI284640, AI246796, AI133164, AI434695, AI564185, AI431303, AL119984, AI334443, AI286356, AI053672, AI471481, AI754955, AW408717, AA720702, AA488746, AA491814, AI587583, AI587565, AA602557, AL119691, AI300167, AL041706, AW162049, AW301350, AI929531, AI499938, AI281881, AW303196, AW440299, AW274349, AL079645, AI537955, AI569086, AL041146, AI919265, AI037897, AA171941, AI753037, AI064864, W79504, AI366902, AW008317, AI064729, AA680243, AI192631, AL038842, AA177061, AI371070, AL046898, AA713815, AI633025, AL138455, AW419262, AA579063, AI282336, C75026, AW021583, F36273, AA587256, AI446464, AA502155, AI761471, AI732120, AA632648, AA226153, AI674873, AI469172, AII48277, AI339850, AW270270, AW238278, AI251021, AI334435, AF150152, AI962050, AII43242, AA758934, C75034, AI707788, AI610159, AA507547, AW022379, AW168342, AA362573, AL138265, AI679782, AW272758, AI871722, C06303, AW023270, AA610491, AI432270, AL048925, AW162489, AI919029, AW079135, AL120687, AA714453, AA559290, AI567674, AI079910, AI270476, AA581903, AW007759, AL038474, AL120959, AW273218, AA386111, AA302963, M77858, AI434311, AL045053, AI830390, AA177063, AI801701, AI654525, AL039958, AI928898, AII10760, AI754653, AA708678, AW073470, AA631507, AL046205, AA569387, AI358571, AI367975, AI473943, AC005994, AC005393, AC009516, AC005940, AC005358, AC006263, AC007227, AL031311, AC005529, AC006277, AC006241, L44140, AC003003, AC005666, AC004491, AC007999, AL135744, AL033392, AP000961, AC005231, AC005778, AC006536, AL133448, AP000501, AL132994, AC005799, AL022323, AL035494, AL008721, AP000152, AL049843, AF196779, AL008718, D84394, AC004472, AC005105, AC006088, AC002429, AL132777, AC004596, AC005046, AC008039, AC005701, AF196969, AL117258, AL008582, AC004992, AL023581, AC005695, AC004492, AC005387, AC002126, AC005154, AF067844, AC002996, AC006285, AL096707, AP000049, AC005562, AC003681, AC005740, AL031770, AC002404, AL049539, AP000311, AC005839, AL080274, AC002312, AL049776, AL021391, AC005180, AF001550, AC005914, AC000047, AL022322, AL021453, AL031597, AC005696, AC008125, AL132987, AC004158, AP000555, AC005244, AL109628, AC016025, AC006449, AC005212, AC004650, AC003101, AC007066, AL031650, Z69666, AC004386, Z97054, AC002425, AL031668, AC006017, AC020663, AP000509, AC003085, AC004825, AC006048, AC008044, AC006120, AC004690, AC005531, AC005828, AC006138, AC006128, AC004263, AL031848, AC008055, AC004253, U85195, U91326, AL133512, AC006128, AC004652, AC005412, AC007649,

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HNEED48	3754	668747	1 - 563	15 - 577	AL034418, AC007564, AC007068, AC002094, AL022476, AC002418, AL035411, AC005899, AC002350, AL035410, AL022328, AC007226, AD000092, Y18000, AC005702, AC004453, AC005632, AL021808, AE000658, AC002430, AL049872, AP000046, AF001549, AL031673, AL121825, AB020865, AL050318, AF029308, AC007664, AC004987, AJ003147, AC002115, AC007384, AL034549, AC000025, AL139054, Z99716, AP000692, AC004945, AL096701, AJ006997, D87675, AF091512, AC000041, AC008119, AC005969, AJ011930, AC002470, U62293, AC006057, Z97195, AC008056, AC006111, Z83844, AC006312, AL035681, AC004638, AL035460, AL035458, AC006511, AC006515, AC006480, AP000513, AC007731, AL022722, AC005500, AL021578, AC005081, AC007308, AL031295, AC008062, AC005069, AC003007, AC005678, AJ246003, AC004975, AL078477, AC005057, AC005207, AC006050, AC004990, AC006509, AC005209, AC005255, AC010168, AL049745, AC007182, AB001523, AL020997, AC004590, Z98200, AL122020, AC006928, AC006064, AL121603, AC005988, U95090, AL009029, AP000962, AC004686, AC005829, AC006153, AC004815, AC012627, Z74739, AP000550, Z97630, AC004024, AC004047, Y14768, U78027, AC004859, AC005031, AL022238, AL079333, AC010382, AC004217, AC004745, AC006292, AC005037, AC007363, AF109907, AL035659, AL031257, AC009069, AC005089, AL133243, AF129756, and AC002369.
HNFAA13	3755	667712	1 - 460	15 - 474	W26285, H51850, R00469, and AC004782.
HNFAA80	3756	781578	1 - 398	15 - 412	
HNFAA83	3757	530295	1 - 299	15 - 313	
HNFAD95	3758	784714	1 - 726	15 - 740	H83668, H85578, AA054359, H86619, AA013002, and Z82244.
HNFAE07	3759	861069	1 - 347	15 - 361	
HNFAF40	3760	861021	1 - 305	15 - 319	
HNFAG69	3761	530349	1 - 163	15 - 177	
HNFAH45	3762	662053	1 - 370	15 - 384	
HNFBS51	3763	530064	1 - 206	15 - 220	
HNFBT11	3764	967784	1 - 218	15 - 232	C05828, AW363343, C05733, W48575, AA581240, AI299442, AI871940, AA121886, AI869406, AI133355, AI133609, AA360082, AI015119, N32218, AA669165, AI282488, AA209438, AI611960, AI583255, AI886467, AA883595, C05928, AA601356, AC006057, AC005318, AC008015, AL133243, AL096703, AC005179, AC005666, AC007919, AC007066, AL049697, AC002044, AC007016, AC002094, AC007385, AC007051, AP000306, AC004019, AC005622, AL035067, AC005484, AC005291, AC004963, AF217403, AD000812, AC002126, AC005251, AC002357, AL034548, AC006571, AC004755, Z97876, AL031123, Z84488, AL117339, AC004447, AC008372, AC002565, AP000047, AC004659, AC006011, AC005409, AC005412, AC006479, AC004049, AP000557, AC005838, U91328, U95742, AP000115, AC005003, AL049749, AC005231, AL035405, AC009399, AC003071, AC003072, AL109952, AC004913, AC004655, AF047825, AC005358, AC007308, AC004382, AL031075, AL031120,

HNFBU53	3765	1-347	15-361	AC005304, Z98257, AC004924, AC004099, AC005913, AC007367, AR036572, AC006120, AC004582, AP000359, AC005095, AC005911, AC007376, AL109827, AC002287, AC005803, AC004854, AP000501, AC006511, AL022726, AC003049, AC004517, AC005829, U96629, AC005255, AL022315, Z83732, AC004929, AC004622, D84394, AC007216, AC009247, AC003065, AC004837, AL117338, and AF053356.
HNFCI32	3766	1-124	15-138	
HNFCI41	3767	1-723	15-737	AC004126.
HNFCI77	3768	1-428	15-442	F15202, AA297666, AA621381, AA715814, AI244157, AC002468, AJ006997, AC004099, AC007774, AL024507, AL034417, AL049829, AP000194, AC005844, AC006241, AL133245, AC004953, AL133246, AC005730, AC004019, AL121652, AC006387, AC007934, AC006441, U85195, Z98304, AE000658, AL133244, AC002456, AL139054, AL022323, AL035420, AP000116, AC000052, AC004531, AC004967, AC005231, AL020997, AC005668, AC002365, AP000313, U91326, Z83844, AP000117, AC007055, AP000050, AL096701, AC004453, AC004209, AL109984, AC007227, AC005037, AL031228, AC006371, AC004383, AL031186, AP000689, AC004626, U91323, AF134726, AC005264, U96629, AB003151, AF196779, Z82198, AC005914, AC004686, and AP000501.
HNFCL68	3769	1-108	15-122	AL022098.
HNFCS04	3770	1-405	15-419	AA743885, AA714682, AA748749, AA047509, AA969497, and AA649294.
HNFCT27	3771	1-397	15-411	AL079300.
HNFCT67	3772	1-217	15-231	
HNFCW14	3773	1-367	15-381	AC002091.
HNFCY33	3774	1-485	15-499	
HNFDC21	3775	1-298	15-312	
HNFDC91	3776	1-503	15-517	
HNFDJ17	3777	1-451	15-465	H67844, and AL031282.
HNFDK40	3778	1-475	15-489	AC006441.
HNFDN04	3779	1-450	15-464	N24949, and N21519.
HNFDN41	3780	1-375	15-389	Z98884.
HNFDN89	3781	1-173	15-187	AC006285, AC007845, and AC016025.
HNFDO81	3782	1-256	15-270	
HNFDO84	3783	1-425	15-439	AA651846, AA287087, AC007193, AL008721, AC007228, and AC007283.
HNFDP09	3784	1-374	15-388	AC007308, AP000557, AP000556, and AC004983.
HNFDR35	3785	1-208	15-222	AL008729.
HNFDR83	3786	1-264	15-278	
HNFDV41	3787	1-407	15-421	

HNFED22	3788	1 - 103	15 - 117	
HNFED43	3789	1 - 703	15 - 717	AI692459, AW025274, AI912748, AI625788, AW135287, AI268722, AW137005, AI983277, AW235753, AD000864, and AC002133.
HNFEF43	3790	1 - 331	15 - 345	AA248418, AA009955, R98152, AA031428, AA592915, AI732656, AI904111, AC002485, AC004897, AL021786, AC004935, AC004015, AC003682, AL035089, AC006145, AC008168, AC005533, AC008014, AC002357, AL049613, Z68331, AP000403, AL031782, AL035424, AL049734, and AC005378.
HNFEF83	3791	1 - 502	15 - 516	
HNFEF95	3792	1 - 814	15 - 828	
HNFEG09	3793	1 - 265	15 - 279	
HNFEG31	3794	1 - 384	15 - 398	AA490873.
HNFEH12	3795	1 - 134	15 - 148	AF196970, and AF115549.
HNFEI12	3796	1 - 95	15 - 109	
HNFEK33	3797	1 - 516	15 - 530	
HNFEM76	3798	1 - 426	15 - 440	AW340916, AA766845, L81825, and AC004749.
HNFEM86	3799	1 - 234	15 - 248	
HNFEN20	3800	1 - 463	15 - 477	
HNFEO61	3801	1 - 232	15 - 246	AA777291, AI476328, AC004409, AC004825, AC004081, Z98742, AC004207, AP000515, and AB014083.
HNFER89	3802	1 - 361	15 - 375	
HNFES44	3803	1 - 350	15 - 364	
HNFEU62	3804	1 - 74	15 - 88	AC004914.
HNFEV41	3805	1 - 207	15 - 221	AI954737.
HNFEV66	3806	1 - 99	15 - 113	
HNFFB21	3807	1 - 425	15 - 439	
HNFFC21	3808	1 - 401	15 - 415	
HNFFD88	3809	1 - 331	15 - 345	
HNFFF81	3810	1 - 55	15 - 69	
HNFFG79	3811	1 - 178	15 - 192	R23542, H24230, R14460, ZA2321, and H24229.
HNFFH03	3812	1 - 461	15 - 475	
HNFFH04	3813	1 - 266	15 - 280	
HNFFJ48	3814	1 - 379	15 - 393	AL043721, F24284, AL043756, AI561335, AI880168, AI697353, AA715270, W25284, AI865905, AL120008, T62712, AW169397, AL133723, AI914706, AA669416, AW238278, AI305547, AI307201, T11542, AA548137, AI473090, R65801, AI371070, AI138344, AW055226, AW088846, AA019707, AW238016, AI205181, AL118991, AA669961, AI082510, AI291823, AI312790, AI039809, AI336054, AI689385, AI355587, AA580662, AW327961, AW327960,

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HNFFK15	3815	920748	1 - 194	15 - 208	AI445436, AI926846, H13868, AP000402, AC007284, AP000159, AC004066, AC005972, AL035072, AC007228, AL049872, X87344, AC006251, AC005772, AC000358, AL008636, AC005968, AC005295, AC003003, AP000330, AL024474, AL109628, AC005304, AC003046, AC007043, AC007057, AP000244, AL117338, AL035494, AL049591, AC007298, AL121757, AP000697, AC007012, AF003626, AC004664, AC002456, AC006001, AC007370, AL022322, AP000173, AC004695, AC005751, AC007076, AC002523, AL050305, AL133289, AF001549, AC003962, AC005146, AC008055, AL035659, AC007656, AC008080, AC004499, AC006458, AC005599, U62317, AC005846, AC008125, AC002368, AC004976, AL035695, Z82194, AC007738, L78810, AC004021, AC008498, AC004626, AC007731, AC005500, AC003048, AL031054, AC006299, AL022098, AL079300, AC004000, AC002430, AC000111, AL034384, AC007384, AC007437, AC003089, AC007376, AC006368, AF117829, AL121578, AC006197, AL035698, AC004616, AC003971, AC003664, AP000056, AP000171, AL021329, AF124731, AL035420, AC004544, U85196, AP000097, AC006531, AL033397, AL031588, AC006948, AL022163, AC004593, AL009172, AF196970, AC005244, AC008126, AL080274, AC005296, AC005155, AC006213, AC004106, AC007685, AC002483, AL031584, AL121694, AC004897, AL033504, AF124730, AC003686, AL031785, AL133244, AC005253, AC005387, U95740, AC005161, AC004072, AL024508, AC002045, AL136363, AL049636, AL078639, AL196969, AC005878, AC018769, AL049832, AC007091, AC004081, Z94721, AF196969, AC007934, AC010200, AL031228, AP000355, AP000127, AP000205, AC007092, AL096757, AC007358, AF029308, AL031289, AC004104, AC004448, AB023054, AF064863, AL050317, AC006480, AL132994, AC004041, AL049761, AC007065, AC007567, AC005325, AC008154, AC007099, AC006367, AP000553, AC009516, AC006928, Z98256, AL137100, AC003965, AC009498, AL033392, AP000086, AF015262, AC007262, AL050348, AJ229043, Z97989, AC005018, AC004605, AC007159, AC007559, AC007566, AL049633, AC007564, and AF064866.
HNFFK36	3816	529978	1 - 303	15 - 317	AC007283.
HNFFK61	3817	740644	1 - 351	15 - 365	AA489127, AA279641, AC004883, AF184614, U57835, U61240, U60972, Z95331, AC005529, AC006026, AL008726, AL031985, AC000353, AC004876, AC005082, AL023882, U85195, and AC005527.
HNFFM25	3818	705856	1 - 798	15 - 812	AA100734, H70404, AI807620, AW170393, AI148673, AI700503, AI951537, AI372906, AI978898, AI355972, AAS77153, AA683135, AI418406, AW027328, AA804574, AI149104, AA040055, AI375779, AW083779, AA948638, AA922646, AI421626, AI086894, H41004, W67241, R80971, H45696, AA454614, AI336304, R50491, R70331, H04863, H48164, H50348, R71660, AA350063, H14248, AI000283, AA158079, AI873952, AA935502, H04767, AA488228, R71772, AI185581, H03390, AW085023, AA953342, N30114, AA330664, AA350336, T47929, R71761, AA350333, AA380748, R80075, AA350335, AA558800, H52808, AW247533,

HNFFO61	3819	742049	1 - 329	15 - 343	AI35331, N92553, AA366768, AA349208, H04088, W42753, AI362566, AA488175, H21988, AA364212, AA313213, AI372422, AA974799, R48548, W67185, R79976, AA380728, AI611852, N42220, H19508, AW381755, AA455790, R24504, AA890444, R71813, R35880, R35881, R90881, R85186, H74174, AA323925, AA188900, AA350334, AI910306, H67210, AA317877, AI372424, R71760, R48639, W86716, W42696, AA322360, H30234, AB023051, AP000512, AC006165, AF117234, AF085357, AF089750, AF145044, U60976, U60977, and U90435.
HNFFO76	3820	727306	1 - 323	15 - 337	AI631960.
HNFFR05	3821	860851	1 - 406	15 - 420	AA659360, AA689255, AA862243, AW338370, AA773162, AL120343, AA167792, AA833896, AA833875, AA494263, AA503119, AA594072, AI910608, AI950671, AA568494, AI174535, AW002777, AA608612, AIT33856, AA828062, F15883, AIT54653, AW082076, AA129219, AA608588, AI114827, AA251356, AI581486, AA631933, AW070703, AI601229, AA355083, AI300167, AI306232, AA480792, N71033, AW118304, AA188664, AA847096, AL120227, AA826302, N33867, AW402688, AI500453, AI537041, AA678565, AA635368, AI362415, AI364809, AL134608, AA613624, AA338167, AA492105, AA984114, AA811208, N84446, AA640410, AA640430, AA358515, AI245679, AI054354, AA489766, AA613954, AW167374, AA522642, AI924855, AI499954, AI865196, W03818, AA689285, AI583466, AI251576, AL038971, AA843779, R08918, AW274191, R44855, AW150476, AA421078, AI499588, AA054055, AIT08005, AA346458, AW195988, AL134519, AA581247, F28352, H67863, AW001268, AA808186, AI469599, AA354259, AI088162, AI536625, AI223700, AW265244, AA654661, AA133332, AIT45335, AI577551, AW265009, AI597580, AA745373, AA503298, AA594043, AI610737, AL042927, AA780784, AA071393, AA677671, AI040051, AI188390, AI282793, T07769, AL041894, AA904211, H18914, AA972809, AA984171, AA340602, AI270370, AA679194, N22037, AI253382, AW265186, AL042225, AL135352, AI978718, AI054414, AI914879, AC002331, Z92542, AC004020, AL035685, AC005722, AL021154, AL133445, AC005520, AC007546, AC004216, AL031734, AC005701, AC005510, AL079305, AC002558, AC005071, Z85996, AC009721, AC005670, AL034376, AF001548, AC004976, AC004253, AC007590, AC007746, AC009509, Z78421, AB026898, AL035106, Z98886, AC005747, AL079333, Z82198, Z85987, AC003101, Z97353, AC004000, AL035652, AC005279, AC005751, AC005317, AP000260, AL034375, Z98941, AL049760, AL109754, AL035448, AL035400, AL049691, AP000499, AC005091, AL008709, AC007278, Z82195, D83729, Z99756, AP000099, AL024508, AF015262, AC002070, AJ229043, AC007879, AP000146, AC002351, AL035694, AL034371, AC006549, AC006960, AL031280, AP000036, AC006925, AC007695, AC006241, AF130248, AL035658, AL031294, AC007159, AC005192, AL031055, AL021528, AC007221, AC003664, AC005668, L78810, AL009029, AC010206, AC006571, AL049759, AP010051, AC004912, Z97196, AL022324, AC003667, AC005026, AC006043, AC008119, Z97192, AC004884, AC005296, AC006315, AC010077, AL035251, AC009225, AC007514,

HNFFR46	3822	574618	1 - 149	15 - 163	AC005873, AL035587, AC006080, AL008712, AL049773, Z75741, AC008125, AL049712, AL034400, AL078584, AC004099, AC005029, AC006333, AC004865, AC007682, AL022394, AC007738, U91319, AC003958, AF111167, AL049792, AC007277, AL031117, AC005796, AC004673, AL031673, D16583, AL022334, AC005291, AC005377, AL079301, AC002302, AL133500, AC003086, AL022159, AC007540, AC008041, AJ229042, AL031778, AC007664, AC002551, AC006560, AP000469, AC018767, AC003663, AC004526, AC007240, AC003689, AC007559, AC008040, AL022312, AL031665, AC006126, AC007774, AL049829, AL008720, AC005900, AC007773, AL132800, AC002054, AC002472, AL050326, AL080245, AB020866, AC006977, Z98749, AL022337, AL050333, AC006132, AL031666, AC006531, Z95114, AC002407, AL031293, AC004538, AL031595, AC006984, AC005363, AP000503, AF134726, AC005215, AF002223, AC005099, AC004106, AC002460, AL121578, AP000069, AP000502, AL133244, AC006020, AC005746, AC008101, AC006384, AL031466, AC005243, AC006088, AC010200, AC005224, AC006972, AL023882, AC016830, AC004810, Z95115, AL035690, AC007539, AF048729, AL031277, AL133247, AC005041, AC006323, AL035425, AC007649, AC004953, AP000076, AC000088, AC000082, AC000071, AC004905, AC005725, AL079303, AC005018, AC003969, Z98949, AL135744, AP000032, and AC005412.
HNFFS14	3823	558192	1 - 296	15 - 310	M89651.
HNFFS23	3824	574677	1 - 300	15 - 314	AC004782.
HNFFS46	3825	574669	1 - 294	15 - 308	AL078644.
HNFFS96	3826	860904	1 - 88	15 - 102	
HNFFT30	3827	574616	1 - 425	15 - 439	AA345805, AB007864, and AC000159.
HNFFT62	3828	574623	1 - 390	15 - 404	
HNFFT71	3829	574617	1 - 445	15 - 459	
HNFFT83	3830	506711	1 - 445	15 - 459	Z82215.
HNFFV05	3831	932364	1 - 362	15 - 376	AA689285, AI732151, AW068996, AW069783, AA228824, AA297802, AL031291, AL121825, AL022237, AC002527, AC004985, AC005544, AC005102, AL050318, Z97200, AC007676, AC002456, AC004927, AC007617, AC005291, AL022320, AC005781, AC002994, AC007878, U91326, AF109907, Z95116, D87675, AC004752, AC004099, AC002558, AC005365, AC005874, AF134471, AC002425, AC004106, AC004832, AC004673, AC004797, AL117258, AL035079, AC007388, AC006480, AL080317, AC006088, Z84466, AL031846, AP000694, AC016027, AL031311, AC016830, AC006312, AL035587, Z93020, AL021155, AC008079, AC006538, AC004820, AC008018, AL034379, AL133246, AL031657, AC005332, AC002465, AC006449, AC004814, AC004876, AC005971, and AC005220.
HNFFV66	3832	574153	1 - 309	15 - 323	
HNFFV73	3833	574143	1 - 347	15 - 361	

HNFFX21	3834	574217	1 - 393	15 - 407	AA632593, AA612727, AI801505, AA838091, W02419, AA584862, AI049845, AI871687, AA947352, AA610255, AL121287, AA857812, R79255, AA829036, N95156, AI282629, AI243789, AI870453, AW070453, AW070532, AA493789, AA054156, W02749, AI285493, AA558748, AA715173, AA715075, AI216990, AA225406, AW272294, AA715955, F35374, AA302690, AI587467, AW0231111, R93919, AC002430, AC007384, AC005484, AC004477, AF196779, AC006581, AC005920, AL109628, AC005722, AF01550, AF129756, AC004000, AC005694, AC004263, AP000034, AL049869, Y18000, AC005527, AC003119, 295115, AC005071, AC004955, AC005529, Z98749, AC007934, AC007546, AC006026, Z82190, AL133382, AL109827, AL133246, Z97832, AP000501, AC005317, AC005412, AL050318, AL109758, AL133312, AC003108, AL024498, AC006992, AC005338, AF111167, AC005237, AC002310, AC004878, AC002996, AC005988, AC002470, AP000131, AP000209, AL031291, AL022336, AC007225, AC004517, AC004232, AC004953, AC004148, AC005231, AC002301, AC006946, AC004890, AC006121, AP000248, L78810, AL139054, AC008154, AC006449, AL109627, AC006071, AC003046, AC004216, AC006430, AC005821, AF109907, Z83840, AC005049, AP000552, AC005736, AC008372, AC005746, X54486, Z98200, AC005740, AL033521, Z98884, AC004230, AL008725, AC007450, AP000505, AF030453, AC007114, AC006001, AP000703, AL020993, AL035413, AC005088, AL009181, AC005225, AL024474, AC005690, AC005971, Z97053, AC000025, AC006208, AL009179, AC007371, AL034553, U89335, AC007024, AC005695, AC004242, AC007690, AC004996, AC005316, AC004973, AL031767, AF124523, AC007664, AC002565, AC007421, AC03004, AL050334, AC004832, AL109952, AC007283, AC007537, AL031311, AC020663, AL023553, AC006017, AL049843, AC004099, AF047825, AL035405, AC002551, AC006511, AC006312, AF141309, AC004139, AC004383, AC005702, AL031431, AC004686, AC005921, AL080317, Y14768, AC005519, AL031665, Z84469, AC002302, AB023050, AC005377, AC004131, AL021391, AL049795, Z99291, AL031680, AF200465, AC005037, AL133353, AC007227, AL135744, Z82243, AC004802, AC005841, AC006211, Z97054, AC009275, AC006141, AC007686, AC006515, AL078639, AC005004, AL022069, AC002553, AF196969, AC007899, AC006057, Z95114, AC005089, AF031078, AL031078, AL031664, X54156, U94788, AL049229, AC007899, AC006057, AC010170, AL035249, AC003982, AC007011, Z68273, AC004757, AC007237, AL020997, AP000511, AF030876, AJ009610, AL049631, AL031597, AC005768, AL117694, AL035443, AL031005, U91323, Z98304, AP000116, AC009294, AL049776, AL023879, AC002350, U62293, AC005057, AC016025, Z98050, AL033527, AL031729, Z83844, AC007021, AL035685, AL021997, and Z75407.
HNFFX55	3835	574218	1 - 447	15 - 461	Z85996.
HNFFX79	3836	574152	1 - 358	15 - 372	AC005610.
HNFFZ53	3837	526845	1 - 431	15 - 445	
HNFFZ289	3838	913701	1 - 987	15 - 1001	AA442241.

HNFFZ91	3839	860897	1 - 758	15 - 772	AA856866, AI921765, AA636077, AA828619, AL038842, AA807704, AI049999, AA720732, AA297776, AW243793, AA632765, AA515728, AL079734, AI039257, AW327624, AA773171, AA878431, AI306232, AI251576, AA502991, AT732151, AI282253, AI583466, AA181917, AI433952, AI090377, AI357823, AA101744, AA832175, AI336771, AI285493, AI801505, AA729004, AA284247, AL133448, AL121655, Z84474, AC005786, AC007371, AP000556, AC002984, AC005602, Z83822, AC005512, AF196779, AL035464, AF207550, AP000557, AC005303, AC005209, AC003041, AC004148, L44140, AC005003, AC002365, AC004703, AL035079, AC005972, AC004921, AC006441, AC005412, Z68331, AC004067, AC005529, AC005015, Z83840, X57103, AL078611, AP000030, AL049611, AC005527, Z83844, AL035414, AC005619, AL109628, AC007688, AP000692, AL024498, AC009247, AL139054, AC005519, AL034420, AL020997, Z99127, AC000387, AC002558, AC006057, AC006312, AL109984, AC004263, U91326, AC005089, AL050318, AC006101, AL133246, Z97054, AC003103, AC004816, AL031005, AC004616, X55448, U78027, AC006538, AC005004, AC007686, AC005180, AC007461, AC007226, AL022320, AL022315, AC006512, AP000049, AL096701, Z99716, AL078476, AL020995, AC006064, AC004678, AC005182, AL050321, AL031587, AC000025, AL024507, AC007421, AL080243, AC002366, AL049839, AC005369, AC006211, AC004967, AC006360, U91327, AL035422, AF205588, AC005971, AP000311, AC008044, AC004383, AC002544, Z95113, AL132712, AF109907, AC005914, AC007690, AC008372, AL022721, AC004034, AF165926, AC005358, Z83845, AC004812, AC009516, AC006285, AC005065, AC004643, AL121652, AP000046, AC000353, AP000549, U62317, AC006208, AC004797, AL031003, AJ006345, AC016830, AC007664, AC004257, AC004821, AC002483, AC007263, AC006474, AL049757, AC016025, U47924, AL022316, AC007510, AC004584, AC005666, AL121603, Z98051, Z84480, AL049795, AC004876, AL031121, AC002472, AC004887, AC005071, AC005684, AL021808, AC006261, AC007051, AC008039, AL031276, AC005684, AL049694, AF030876, AC006487, AF107885, AC004955, AC005355, AC006273, AC006088, AL096703, AC004883, AF053356, AL031657, AC004386, AC005011, AL031722, AF217403, AL117330, U91323, AL020993, AC005822, AL031846, AC005695, AC005231, AL031346, AC006241, Z98200, AC007227, AC004854, AC005920, AC002094, AC006166, AC004150, AC002310, AC005778, AP000552, AP000065, Z86090, AB001523, AL034429, AL031680, AC003108, AC004033, AL034548, U80017, AP000355, AC005482, AC006084, AC005037, U96629, and U52112.
HNFGB37	3840	577342	1 - 292	15 - 306	Z95118.
HNFGC17	3841	860899	1 - 435	15 - 449	
HNFGC46	3842	967538	1 - 309	15 - 323	AA639859.
HNFGC53	3843	860900	1 - 615	15 - 629	AA702690, AI570659, H58517, and AC005318.
HNFGC57	3844	782183	1 - 427	15 - 441	

HNFGC64	3845	851981	1 - 440	15 - 454	
HNFGE16	3846	781720	1 - 303	15 - 317	AC005776.
HNFGE36	3847	684992	1 - 566	15 - 580	T72851.
HNFGF83	3848	526843	1 - 349	15 - 363	
HNFGH24	3849	524419	1 - 328	15 - 342	AF184110, and AC006059.
HNFGH71	3850	954601	1 - 404	15 - 418	
HNFGI01	3851	921431	1 - 660	15 - 674	H95198, AW274228, AA135376, AA838709, AI031681, N51649, AI380604, U92072, AF118890, and AF118889.
HNFGI49	3852	909707	1 - 285	15 - 299	AA305489, AI970612, AI088792, AI129935, AW340706, AI445737, AW129405, AW029494, AI339728, AA431754, AA481465, N23212, AW072683, AA587221, AW273074, AA716154, AI624922, AW117722, AI582747, AA306890, AI362727, AW013971, AI636029, AI142386, AA477167, AA152108, AA230286, AA152033, AA812974, AA230236, AW002763, AI147376, AW054932, AW024764, AA233879, AA486843, AA873861, AF057026, and AF086624.
HNFGI84	3853	783204	1 - 248	15 - 262	AJ012008, AP000504, AFI29756, and AFI09905.
HNFGI93	3854	526534	1 - 283	15 - 297	AA812141, AA487621, AA488746, AA299189, N32849, AW270343, AA559241, AA290563, AA760808, N72524, AA454177, AA487475, AA570230, AI753488, AW102846, AW084466, AL079511, AI561060, AI049508, AW270300, AL137998, AA569471, AI366993, AI014843, AW070892, AA483223, AA101689, AA665021, AA302811, AA811710, N91070, AA491955, AL042420, AC004883, AL021707, AC002551, I01960, M11567, AL021307, AC005772, AL031905, AL035422, Z98047, AC004821, AC003108, AL096701, AC005412, AL022311, A63032, AL109847, AC006946, AF053477, AC003969, AC005065, AC000117, Z83826, AL121694, AL118523, AC005837, AL034379, Z95114, AC007205, AC007191, AL034344, AC006130, AP000127, AP000205, Z98036, AC004662, AC004099, AC004552, Z84469, AC004894, AL049647, AC003035, AC005387, Z98745, AC007436, AC005678, AC004228, Z79997, U07561, AL078611, AF045555, AL035687, Z97054, AC005081, AC006121, AC004771, AL031679, AP001052, AC007617, AC007270, AL121652, Y12855, AC002073, AF003529, AC008079, AL132642, AC004953, Z75746, Z84721, AC006985, AP000280, AC007033, AL023575, AC004752, AL109798, U78027, AP000039, AP000107, AC006465, AC002119, Z85987, AL035587, AL031276, AF064866, AC007324, AL049694, AL031577, AC008101, AC004253, AC004595, AC003074, AC004701, AL050318, AC004051, AC005482, AL031311, AC004984, AC005399, AC004020, Z97200, AC002350, Z95152, AC007637, AL080243, AL117693, Z98304, AC003965, AC004234, U93305, AL121653, AL121658, AF196779, AL022721, U96629, AL137572, AP000545, AC005565, U15177, AC007124, AL050324, AC003065, AC005033, AP000689, AC007666, AL009031, AL109753, AC002326, AC005803, AB003151, AL031283, and AP000501.
HNFGK28	3855	574599	1 - 321	15 - 335	
HNFGK29	3856	574593	1 - 221	15 - 235	

HNFGK39	3857	574592	1 - 225	15 - 239	AL031005.
HNFGL31	3858	420241	1 - 469	15 - 483	
HNFGL94	3859	709264	1 - 138	15 - 152	AC005071.
HNFGM40	3860	524398	1 - 357	15 - 371	AI758365, R25772, AI199589, AA905339, AW410939, AA101566, AI828038, AI743331, AW294803, AI990537, AI907224, AI990873, AI636883, AI907223, AA781736, and AI479878.
HNFGM61	3861	750800	1 - 294	15 - 308	AW239189, AW327701, AA206129, AL048272, AW239069, AA352871, AA310523, AA295649, AA481822, AW384995, AW384998, H93967, AA759007, R48716, AA434007, AW376413, H25589, T54238, R74215, H30574, AW404846, AF149291, and D21261.
HNFGM76	3862	908665	1 - 868	15 - 882	AI860139, AI738678, AW149459, AI394329, AI499859, AI879584, AI475610, AI094142, AI057183, AW051629, AW136472, AW293272, AI886866, AI825816, AA236872, AI189241, AA927552, AI084187, AW250159, R71853, AI523638, AF150628, and AF132599.
HNFGN36	3863	575567	1 - 635	15 - 649	AA085530, AA278791, and AI961765.
HNFGN60	3864	574588	1 - 322	15 - 336	Z59518.
HNFGP07	3865	953915	1 - 522	15 - 536	
HNFGP31	3866	574643	1 - 113	15 - 127	AL135009, and AF053630.
HNFGP64	3867	932413	1 - 719	15 - 733	AW117576, AA648940, AA814664, and AA749041.
HNFGQ23	3868	750597	1 - 370	15 - 384	AL035530.
HNFGQ58	3869	574583	1 - 300	15 - 314	
HNFGU56	3870	574587	1 - 353	15 - 367	
HNFGW96	3871	915309	1 - 753	15 - 767	H24136, R25934, Z45244, and AI214671.
HNFGX55	3872	795918	1 - 722	15 - 736	T89765, and T84142.
HNFGZ03	3873	924695	1 - 486	15 - 500	AI765111, and AC006953.
HNFHA11	3874	967520	1 - 436	15 - 450	
HNFHD40	3875	970875	1 - 468	15 - 482	
HNFHF18	3876	666827	1 - 300	15 - 314	
HNFHF32	3877	699518	1 - 310	15 - 324	
HNFHF33	3878	574146	1 - 397	15 - 411	
HNFHF53	3879	574148	1 - 338	15 - 352	AL034375, and AC002326.
HNFHG35	3880	574684	1 - 222	15 - 236	
HNFHH12	3881	968808	1 - 250	15 - 264	
HNFHH31	3882	574697	1 - 304	15 - 318	
HNFHH33	3883	574703	1 - 348	15 - 362	
HNFHH83	3884	523646	1 - 299	15 - 313	
HNFHH88	3885	521932	1 - 116	15 - 130	M62505, AC003007, and AC005632.
HNFHI17	3886	523569	1 - 214	15 - 228	
HNFHJ10	3887	964802	1 - 340	15 - 354	AC006953.

HNFHK07	3888	953538	1 - 267	15 - 281	
HNFHK46	3889	860844	1 - 433	15 - 447	
HNFHK77	3890	576186	1 - 415	15 - 429	
HNFHK85	3891	577324	1 - 420	15 - 434	AW151017, AI361481, AI660038, AA668973, H16074, AC002549, and AC003049.
HNFHM09	3892	657247	1 - 117	15 - 131	
HNFHM47	3893	916624	1 - 875	15 - 889	AI283842, AA928413, R85226, W16867, AI902392, T07285, N54179, AA808903, AA714028, AL133867, H50738, AA086360, T06699, H91188, AD000092, AC005778, AL050318, X65032, AC005089, AC005826, AC007537, AC006379, AL008631, AL109865, AL035410, AL022302, AC007059, AL021808, AC003657, U78027, AL035422, AC006454, X14448, AF147433, AC008127, AC003688, AL031657, AL049757, AL031721, AC005921, AC005822, AF001552, AC011331, Z82189, AC005837, AC002476, AD000864, AC007421, AL109984, AL031780, AC004815, Z98941, AC005703, AL021407, AC003025, AC004814, AF047825, AC008040, AC012627, AC007880, AC004998, AC004228, AC005722, AL035587, Z98051, Z82976, AL023575, AL022324, L44140, AC004921, AC005568, AL121652, AC002364, AF139813, AC005828, AL121825, AP000702, AL035681, AP000703, AL034343, Z84466, L39062, Z84723, AC005097, Z99129, AC003043, AL096769, AC007842, AP000691, AC006547, and AC007201.
HNFHM58	3894	674349	1 - 121	15 - 135	
HNFHM60	3895	662643	1 - 74	15 - 88	
HNFHN03	3896	860887	1 - 275	15 - 289	AA573693, AA313075, AA550850, AL047645, T54673, AA468356, AA608529, AW085621, AL037777, AA290802, R09127, AA744583, AI089968, AI088759, AW026427, AA808982, F23235, AA635413, N48297, AA253451, AA593092, AW268329, AA489797, R11510, AA372420, AI053568, AA009855, AI356986, AA284888, AA284638, AA290682, AA436404, AA454759, AI308598, T71936, AI888261, AL049830, AL023581, AC005411, AL034420, AL121653, AC002524, AF029308, AC004525, AC002303, AL139054, AL050317, AC006285, AL049569, AC004893, AC005094, AL031905, AC002492, AC005037, AC002364, AC005237, AC005666, AC006587, AC018359, AL133216, AL121757, AC005952, AC002128, AL035422, AL121825, AC006581, X04530, AC005684, Z99943, AC006271, AF024533, AF111168, AC002565, X58139, AJ010770, AC005914, AL022400, AC006211, AC005920, AC004927, AF051976, AL049779, AL022320, AL121578, AC004651, AC006368, AC009247, AF030453, AP000500, AC006323, AC005193, AF165926, AL023553, AL035411, AL117356, AL133445, AB026899, AC006077, AC005880, Z97630, AC004106, AL096766, and AC006462.
HNFHQ01	3897	938114	1 - 401	15 - 415	AW328430, F12145, AI815981, and AA311733.
HNFHQ23	3898	921950	1 - 422	15 - 436	
HNFHQ32	3899	765827	1 - 424	15 - 438	
HNFHQ67	3900	576147	1 - 226	15 - 240	
HNFHR70	3901	586494	1 - 331	15 - 345	AA299540, AC000159, and AB007864.

HNFHS84	3902	725566	1 - 433	15 - 447	
HNFHS85	3903	576118	1 - 299	15 - 313	
HNFHU20	3904	512927	1 - 743	15 - 757	M79201.
HNFHU27	3905	683506	1 - 320	15 - 334	AA281626, AA626747, AA744220, AW406447, AI281903, AA736472, AA652057, AA649642, AA598997, AA125788, AA095511, AW088058, AW074207, AA947370, AL042420, AI571512, T07324, AA553604, AI299694, AA836275, AA494163, AA151807, AA831388, AA338522, AW148507, AI281881, AC011311, AC006581, Z95329, AC004526, AL135744, AC004963, AL021707, AP000500, AC005303, AC002090, AF055066, AP001137, AF196971, AF067844, AC005703, Z99570, AC008179, AC004858, AL049869, AF130343, Z72522, AL021878, AF205588, AC004531, AC005994, L29074, AC007050, AC006026, AC006213, AL121603, AL133238, AF109907, AF053356, AL096701, Z69921, AC004991, AC016025, AC004647, AC006356, AC016026, AL034402, AC005971, AP000348, Z82184, AC006071, Z85986, AC000052, U44395, AP000552, AF087510, AC005531, AF049895, AL031584, AL033521, AC006285, AC004765, AB026899, AC007845, AC007066, AL121658, AC020663, AC005102, Z93023, U80017, AL031257, AC004041, AL121877, AL022323, AP000153, AP000012, L48473, Z83820, Z98048, AC006313, AL031589, AJ246003, AC003029, AC002310, AC004033, AF165926, U50429, AL035071, AL022322, AL049759, AC003684, AC006312, AC006064, AC002425, AP000556, AC007919, AL080243, and AL031431.
HNFHU85	3906	506309	1 - 364	15 - 378	AL138162, and AC004490.
HNFHV81	3907	766220	1 - 396	15 - 410	AA186965, R74512, Z42358, and AI904695.
HNFHW14	3908	939763	1 - 522	15 - 536	
HNFHW40	3909	577110	1 - 302	15 - 316	W21388, D89870, AC004152, and Z58159.
HNFHW70	3910	757261	1 - 303	15 - 317	AA228901, T89776, T71470, and Z83844.
HNFHW81	3911	577329	1 - 394	15 - 408	
HNFHX24	3912	934305	1 - 627	15 - 641	AA682722, AA579680, AA995482, and H60525.
HNFHX44	3913	716852	1 - 279	15 - 293	AF072099, and AC008984.
HNFHY29	3914	860879	1 - 569	15 - 583	
HNFIA33	3915	861010	1 - 280	15 - 294	AB017919.
HNFIB47	3916	523438	1 - 305	15 - 319	AC007032.
HNFIB67	3917	577326	1 - 111	15 - 125	
HNFIC22	3918	577442	1 - 345	15 - 359	AL031283.
HNFIC43	3919	707264	1 - 371	15 - 385	AW276703, and AC005280.
HNFIE18	3920	576032	1 - 212	15 - 226	AC005095.
HNFIG07	3921	918389	1 - 465	15 - 479	AC002091, AR026676, AC003695, Y10742, and AR026672.
HNFIH79	3922	576143	1 - 251	15 - 265	AI088952.
HNFII46	3923	919275	1 - 579	15 - 593	

HNFIK03	3924	921951	1 - 276	15 - 290	AL049553.
HNFIK37	3925	576151	1 - 223	15 - 237	T47739, N27353, AA084070, F35659, AL120343, AI951436, AI313166, AL048925, AC005015, AL035587, AL022237, AL031584, AP001035, AL096712, Z82214, AC003959, AC005519, AC007738, AL031296, AC001231, AL121603, AL109654, AL049776, AC000134, Z98752, AP000151, AC006965, AL096766, AC006984, AC005011, AC010849, AL049837, AC002059, AP000513, AL109984, AL035422, AC004596, AL021392, AC007387, AB023050, M96326, AC004799, Z82179, AL035450, AC005414, Z94865, AC005542, AL049856, AC008967, AC011422, AC006354, AC002350, AP000555, AC005822, AC003080, AC007652, AL096774, AP000080, AL122020, AC005988, Z97055, AC008134, AP000692, AC004821, AL109620, AC007993, AP000159, AC005081, AL022160, AC004144, U91319, X14448, AC005354, AC005003, U78027, AC005608, AC007285, and AL049757.
HNFIK44	3926	506258	1 - 425	15 - 439	AC004149, and AL049759.
HNFIM13	3927	657201	1 - 421	15 - 435	AI583265, AL038564, and AC004687.
HNFIM16	3928	661500	1 - 259	15 - 273	AC004001.
HNFIN33	3929	702415	1 - 431	15 - 445	
HNFIN60	3930	740372	1 - 429	15 - 443	I44517.
HNFIN67	3931	574569	1 - 551	15 - 565	
HNFIN83	3932	779925	1 - 456	15 - 470	
HNFIO27	3933	573095	1 - 447	15 - 461	
HNFIO50	3934	724374	1 - 449	15 - 463	AB007864, and AC000159.
HNFIO82	3935	921037	1 - 196	15 - 210	
HNFIP50	3936	965283	1 - 1489	15 - 1503	AI083668, AI880750, AI911931, AI418465, AI762839, AI659971, AI479026, AI096759, AI033897, AI401511, AI871470, AI884848, AI814201, AW406595, AI431497, AI401210, AA293370, W75960, AA744801, AI127571, AI817886, AW405264, AI684858, W72885, AW026235, AI394414, AI224469, AA292652, AW404229, AA284412, AA766620, AW026968, AW026962, AI360930, AA355073, AI332950, AA633494, AW406935, AW407230, AA535630, AW407951, AI243522, AA929024, AA768971, AW405242, AA744794, AI760712, AW408225, AI000428, AW296233, AI091955, AI432358, R88002, AA744457, AA744459, N75335, AA716083, AI352425, AA744029, AA507894, AA280941, AA811203, AI146957, AL047763, AI468866, AA293055, AI121270, AI349772, AI539771, AI538716, AI800453, AL046849, AW087445, AI440239, AL040243, AI540832, AI499463, AI249257, AW301409, AI800433, AI275175, AL043326, AI064830, AI433976, AI620284, AI625079, AI702433, AL045500, AI433157, AI500659, AW238730, AI250293, AI702406, AI567351, AL119791, AI349933, AW117882, AI281773, AW071349, AI469811, AW195957, AI613017, AI499131, AI439087, AI568855, AI678302, AI631107, AI568870, AI224992, AL121365, AI269696, AI868831, AI633419, AI498579, AI866002, AI436456, AW274192, AI610645, AW074993, AI521012, AI349004, AI349598, AL580190, AL047042, AI866608, AI349645, AI348897, AL119748,

AI135661, AI624668, AI612913, AL038605, AI570384, AW071417, AL119049, AL036802,
AL036396, AL045903, AI475371, AI635461, AI802542, AI499393, AI349256, AW169653,
AW068845, AI687728, AI857296, AL036146, ALO44207, AI863014, AI564719, AI636445,
AW103371, AI690426, AI758437, AW303152, AI811344, AI281779, AI862142, AI445432,
AW008512, AI271786, AI873731, AI569616, AI281762, AI440426, AW162071, AI580984,
AI597750, AI590128, AI340582, AI682841, AI499512, AW002342, AW075351, AL048871,
AW148320, AI500077, AW074869, AI445025, AW026882, AI349614, AL038778, AW268253,
AI312152, AI818206, ALO40169, AI345735, AI349937, AW089572, AW168650, AI699857,
AW167776, AI754897, ALO36274, AL036759, AI884469, AI866887, AW104724, AW085799,
AI439745, AI536685, AI497733, AI799199, AI432969, AI282281, AI636456, AI811863,
AI285735, AI869367, AI818683, AI318280, AI620868, AI434281, AI343112, AI619502,
AI969601, AI446628, AW168384, AI539153, AW183130, AW196141, AI207510, AI804585,
AI609331, AI283941, AI920968, AI500553, AI673256, AI610756, AI637584, AI282655,
AI872711, AI469532, AW129202, AW169671, AI580240, AA508692, AI290154, AI269205,
AW118512, AI597918, AI804411, AI690835, AI690751, AL121014, AI862144, AW301300,
AW078529, AI273142, I48979, AF113013, I89947, AF113691, AF090900, AL133640, AF078844,
AF090943, ALO80060, I89931, AL133606, AF090903, AL133016, AL110196, ALO49938,
A93016, AB019565, X84990, AL110221, AF118064, S78214, ALO50393, AR059958, AF090901,
AF090934, AF104032, Y11587, AL117460, AL117457, AL122050, ALO50146, S68736,
AL137527, AF113694, AF113689, ALO50149, ALO50116, AF118070, L31396, L31397,
ALO49452, AI242859, AF125949, AF113690, AF090896, AF113676, AF113677, AL133075,
AF106862, ALO50108, ALO80137, U42766, A08916, AL137283, ALO49314, AL122093,
ALO49466, AF113019, A08913, AL133557, AF017152, AL133093, AL133080, Y11254,
ALO80124, AL122123, ALO50277, E07361, AL137557, E03348, ALO96744, AL122121, I48978,
AF158248, X63574, AF113699, AL133565, AJ000937, AR011880, AL137459, Y16645,
AF111851, AF146568, ALO50138, AF091084, ALO49430, AL117394, U91329, AF079765,
AL110225, AF125948, X82434, AF177401, E07108, U00763, I49625, AL117585, AF097996,
ALO49300, AL117583, AF017437, AL133560, E02349, AL137550, AF067728, AL137538,
ALO49464, A65341, AL117435, A08910, AJ238278, A08912, X70685, ALO49382, A03736,
S61953, ALO50024, AF183393, A77033, A77035, AL133113, AL122110, L33392, AL122098,
A58524, A58523, A08909, U72620, AF118094, ALO49283, Z82022, ALO80127, X93495, X65873,
U80742, AL137648, X72889, AL137463, AF087943, AL137271, A12297, U35846, I09360,
I03321, X96540, U67958, AC002467, AC006371, AL110197, X98834, ALO96776, E05822, I42402, E08263,
AF061943, AL137521, Y09972, AC006336, ALO80159, AL133077, AC007392, M30514, AR013797, AF111112,
AL133568, AL137560, I17767, AF061981, E26207, AC007392, A93350, U95739, AC004686,
E15569, I66342, AJ012755, AL122111, L13297, A93350, U95739, AC004690, AR038969,

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HNFIP71	3937	760366	1 - 427	15 - 441	R61153, AC007845, AC016025, AC016026, Z79966, Z56830, and Z56829.
HNFIQ17	3938	768043	1 - 427	15 - 441	AC000159, and AB007864.
HNFIQ74	3939	765566	1 - 122	15 - 136	
HNFIR02	3940	928109	1 - 409	15 - 423	AA160511, AI970612, AII29935, AI088792, AW340706, AI445737, AI339728, AW129405, AW029494, AA431754, AA481465, AW072683, AA587221, AA305489, AW273074, AA306890, AI624922, AW117722, AA716154, AI582747, N23212, AI362727, N48805, AA477767, AA152033, AA152108, AA230286, AA812974, AI147376, AI869656, AI184855, AW168381, AI197947, AW136145, AW002763, AW191986, AA477877, AA524288, AI928763, AA233879, AI804827, AA487203, AA740454, AA230195, AA157560, AA486843, AA157958, AI556982, AW054932, AI445690, AI521047, F34247, W42636, AI356995, AA873861, AW275822, AI659224, AII42386, AA805596, F10109, AA835930, AW084015, AA720949, AA443114, AA813801, AW016711, AII97917, AW024764, AW117703, H06723, R27339, H10925, AW083223, R38694, R76673, AA299538, F10656, AA230236, AA687564, AW083394, R27308, AW088939, and AL590774.
HNFIR32	3941	848254	1 - 459	15 - 473	AL031005.
HNFIR86	3942	781175	1 - 427	15 - 441	AL031005.
HNFIS51	3943	725648	1 - 362	15 - 376	
HNFIT31	3944	697961	1 - 120	15 - 134	
HNFIU07	3945	953268	1 - 309	15 - 323	N43757, AA450199, AA085023, AW169151, AI921649, AI376100, AW074059, AI356904, AI922654, AI564284, AI816537, AI570138, AW080120, AA491284, AA722372, N22059, AI374809, AI364809, AI580652, AI357551, H71429, H50727, AA488395, T28550, AI956124, AI708009, W85752, R99385, AA578154, AA346458, AA829106, AI110223, AC005089, AC006249, AC000084, U63313, AC002491, U07562, AL035608, AC005663, AC003957, AC005664, AC004866, AC000114, Z99754, AL049843, AB032980, Z97183, AC004623, AC003042, AL024508, AC005354, M62424, AR025392, X13921, AL110121, Z68870, AC005331, AC005199, AP000265, AC002984, AC005953, ZB1314, AC005206, AP000034, AL096794, Y14768, Z83313, AC005667, AP000101, AP000505, AC004671, AC005968, AL031775, AL049748, AL035701, AC005681, U85198, AC007773, AP000567, AC000052, AF064857, AC006312, U96409, AL022170, AL022328, AC007773, AP000567, AC000052, AF064857, AC006312, AC002368, AL022302, AL109984, AC004851, AC009784, AC002044, AL035458, AC004455, AP000154, AC002565, S42659, U17077, M87923, and AP000012.
HNFIU14	3946	967558	1 - 314	15 - 328	AL031276.

HNFIU24	3947	677178	1 - 380	15 - 394	AC002091, and AC003695.
HNFIU56	3948	733363	1 - 402	15 - 416	AP000356.
HNFIV38	3949	709265	1 - 374	15 - 388	AW300249.
HNFFV73	3950	764409	1 - 350	15 - 364	AW381960, AA856911, AA533315, AW382006, AI279467, AI679002, AC007993, AC004859, AL031659, AL049636, U82668, AC005015, AC007221, AL050307, AC006430, AC005048, AC002091, U07562, AC005355, AP000080, AL024509, AL034345, AD000091, AC004817, AC010206, AC008119, Z82244, and AC022517.
HNFIW62	3951	740598	1 - 380	15 - 394	
HNFIZ47	3952	720315	1 - 378	15 - 392	R54654, AA508689, R10145, AI360932, AI161218, AI302363, AA169798, N46098, AW276222, AA284554, AC007382, AL035587, AC004963, AL049839, AL049869, AC005523, AC004491, and AL022323.
HNFJA29	3953	941525	1 - 498	15 - 512	AA482321, and A90848.
HNFJA60	3954	740362	1 - 420	15 - 434	N27743.
HNFJA78	3955	723390	1 - 318	15 - 332	AL117340.
HNFJB80	3956	752489	1 - 1036	15 - 1050	
HNFJE30	3957	574145	1 - 418	15 - 432	
HNFJG33	3958	702411	1 - 425	15 - 439	AC007275, and AC006366.
HNFJG44	3959	860847	1 - 578	15 - 592	R35010.
HNFJH59	3960	738593	1 - 545	15 - 559	T06440, AI491715, AI097211, AA715280, AI886336, AI382825, AI561027, AC007684, AC006071, AC005026, AC005041, U91322, AC005274, AL136297, AC007011, AC007263, AL118497, AC000085, AC004000, AC005102, AL022318, AC006205, AL035699, AC004764, AC006501, AC004895, AF111168, Z99716, AC002351, AC006120, AF053356, AC004938, Z97056, AC003957, AC004019, AL022165, AC005833, AB001523, AC007421, AC008055, AL049538, AL049694, AC004583, AC004821, AC007637, AC006511, AC004106, AC005003, AL021918, AC007371, AF109907, AL132987, AC002347, AB000877, AC002287, AL049636, AC004494, AC005839, U52112, AC006046, AC004617, AC005696, AC007151, AP000032, AL122020, Z94056, AL049757, AC002425, AC005358, AL031296, AL096791, AP000506, AC006441, AL121756, AC005736, AC005231, AC005911, AC005944, AC005288, AL031680, AL031767, AC005971, AC008044, AC003664, AC004967, AP000688, U95740, AB023048, AC004659, AC007676, AC005089, U96629, AC012085, AC005071, and AC005409.
HNFJH70	3961	956187	1 - 890	15 - 904	AI912090, and AA553367.
HNGAC50	3962	724666	1 - 118	15 - 132	
HNGAD53	3963	527977	1 - 213	15 - 227	
HNGAF45	3964	526940	1 - 283	15 - 297	AW084484, AA682801, AI766115, AB017919, AB010999, and AB008803.
HNGAH10	3965	968271	1 - 293	15 - 307	AI810682, AI357542, AI364801, AW138908, AC005041, AC007546, AC005325, AC012627, L09706, AF019413, AC000052, AC004019, X69908, Z68284, AC006958, AP000354, AL022477.

HNGAH27	3966	573087	1 - 298	15 - 312	AP000355, AC004533, Z86061, AC005237, AC007790, AC009178, AC005753, AC006112, D87012, AP000502, AP000141, AP000088, L35671, AC006924, AL133243, AF135187, AC005612, AL031315, Z84497, AC005284, AF200923, AL118516, Z70280, AC005304, AL031120, AL139054, AC004212, Z97630, AP000126, AP000204, AC004522, AB023050, AP000244, AC005548, AP000512, AC005200, AL035419, AC005668, AL031431, Z96104, AL079304, AC004140, AC004963, Z82203, AC005253, AC004167, AC004849, AL132992, AC004695, AC004981, Z98748, AL050307, AC008045, AL035067, AC008079, AC007529, L20252, AL133448, AC005592, Z98036, AL024495, AC004859, U91323, AC004975, AC007796, and AL031311.
HNGAJ23	3967	676296	1 - 355	15 - 369	AI187426, AC006352, AC007028, AC006359, AC002041, U91320, and AC005591.
HNGAJ35	3968	558467	1 - 252	15 - 266	AA296593, AL022069, AL031386, AC005381, AL049613, AL035551, AB020862, AC007073, and AC004990.
HNGAJ10	3969	860751	1 - 398	15 - 412	AL121840.
HNGAJ82	3970	577407	1 - 200	15 - 214	A52418, and A67829.
HNGAK12	3971	660682	1 - 420	15 - 434	AA361909, AA305740, AA127756, AA769607, AA703462, AW294771, AF096300, AL137755, AB014587, AC005035, U88984, and AB013385.
HNGAK70	3972	860770	1 - 353	15 - 367	AC002303.
HNGAL51	3973	531719	1 - 235	15 - 249	
HNGAL84	3974	573099	1 - 166	15 - 180	
HNGAL88	3975	574666	1 - 243	15 - 257	AC005576, and U95626.
HNGAL92	3976	953889	1 - 199	15 - 213	
HNGAN28	3977	685436	1 - 150	15 - 164	AC008012.
HNGAN78	3978	577412	1 - 432	15 - 446	AI660791, and AI660768.
HNGAO40	3979	660305	1 - 158	15 - 172	
HNGAP18	3980	666852	1 - 321	15 - 335	AA580572, AW079831, AC005914, AC005529, AC006538, AC005500, AC006251, AC007536, AC005694, AC006273, AL121652, M63005, M63544, AL049869, AC005594, U91325, AL022323, AC004752, AC005084, AL035587, AL023575, AC004934, AF146367, AC005091, AL023803, AL031846, AF124523, X16289, and AC006130.
HNGAP59	3981	916323	1 - 152	15 - 166	
HNGAQ54	3982	574647	1 - 211	15 - 225	
HNGAR83	3983	574470	1 - 375	15 - 389	
HNGAS51	3984	773208	1 - 231	15 - 245	AL023913.
HNGAU59	3985	860839	1 - 77	15 - 91	AC000365.
HNGAU65	3986	925692	1 - 235	15 - 249	
HNGAV04	3987	506589	1 - 431	15 - 445	

HNGAV25	3988	574671	1 - 273	15 - 287	
HNGAV53	3989	573092	1 - 360	15 - 374	
HNGAV79	3990	574661	1 - 369	15 - 383	
HNGAV84	3991	574651	1 - 93	15 - 107	
HNGAV88	3992	860753	1 - 439	15 - 453	AL024473.
HNGAW25	3993	574645	1 - 329	15 - 343	
HNGAW40	3994	711454	1 - 399	15 - 413	AW020198, AI003469, AW247338, AI478722, AI300507, T67734, AC005175, AF001548, AL139054, AF001550, AC005527, AL023653, AC005399, AC005529, AL035405, AL031228, AC004815, AC005535, AP000359, Z83844, AC005786, AF030453, and AL117258.
HNGAX82	3995	507313	1 - 333	15 - 347	AC006953.
HNGAZ49	3996	715380	1 - 387	15 - 401	AA584072, AP001069, AP000567, AC005250, and AC008372.
HNGBB06	3997	936080	1 - 408	15 - 422	H50004, and H62199.
HNGBC50	3998	868082	1 - 1653	15 - 1667	AW069227, AL119625, AA813902, AA720582, AI702095, AI910609, AW272925, H15679, AA653221, AI634187, AI431232, AI677668, AI684208, AI720431, AI805380, AI367420, AI367401, AI986251, AA632407, AI186470, AW338292, AI128353, AI832782, AI457313, AI925423, AA491864, AL048267, AA704147, AI818212, AI473995, AI679394, AI678812, R43331, AA526413, AI679902, AW025031, AI583397, AA634737, AA484022, AA177061, AI288033, AA015918, AC002316, AC003962, AC006111, AC004832, Z99291, AC005058, AL022476, AC002115, AF207550, Z97054, AL117339, AC009516, AL133448, AC003950, AC006509, AC004812, AC002126, D87675, AJ003147, AL096701, AC004167, AC005913, AJ251973, AC000052, AC000401, AL034430, AC007666, AC005585, AC004686, AE000658, AL035422, AC007685, AC005412, AL136295, Z84466, AC005726, AL022721, AC006511, AC006061, AL049830, AP000493, AC007371, AC005746, AC005229, AC005375, AP000704, AP000558, AP000011, AP000152, AC006571, Z82203, AL031577, AL031846, AC003108, AC006121, AC004821, AC005914, Z93023, AL031432, AC007226, AC004583, AL096791, AL109628, AC005008, AL117694, AC005747, AP000114, AP000046, AC005332, AP000466, AC004834, Z83844, Z93241, AC005666, AC003104, AC005940, AB003151, AP000240, AL035400, AL121655, AL035089, AP000303, AC005084, AF053356, AL031602, AC005480, AC009946, AL049839, AP000501, AP000557, AC002558, Z85986, AC006211, AC004673, AF152363, Z84487, AC005696, AC005227, AC004148, AL034379, Z95114, AC005730, AC007216, AC004895, AP000252, AL022330, AC002045, AC008044, AC004019, AC008123, AC006071, AC005620, AP000212, U85195, AL008582, AC005049, AC005279, AC004773, AF003626, AC006146, AC004033, U91323, AC005004, AC005071, AL022326, AC007283, AL031650, AL049760, AC002302, M26434, AL109623, AC004386, AC006449, AC006328, AL049569, AC006344, AC005189, AC006006, AL049709, AL031680, AC020663, AC004522, AF064861, AC008040, AP000692, AL021154, AC004032, AL021069, AC003109, AC005399, AP000269, AL049743, Z96074, AC005089, AL035681, AL023883, AP001039, AL031589,

HNGBE26	3999	684761	1 - 361	15 - 375	AC005736, AC007363, AP000049, AP000116, AC009247, AC004882, AP001052, AC010077, AC007690, AL021391, AP000103, AC007160, AC002563, AC004706, Z97056, AC004257, AL133245, AC006115, AF067844, and AC002429.
HNGBF41	4000	571331	1 - 359	15 - 373	AC005553.
HNGBF80	4001	574475	1 - 345	15 - 359	
HNGBG20	4002	860739	1 - 341	15 - 355	
HNGBG50	4003	577364	1 - 273	15 - 287	AC002492.
HNGBH04	4004	574469	1 - 163	15 - 177	
HNGBH77	4005	577361	1 - 302	15 - 316	AC004538.
HNGBI10	4006	968246	1 - 323	15 - 337	T18597, AA585325, AA585098, R45895, R29657, Z32822, D51433, AA585101, Z32887, D57491, D59751, D61185, C15406, D53161, R28735, R29445, C15069, AI525316, AI557262, AI526078, AI526140, AI557864, R28892, AI541356, R28965, AA585378, AA585155, AI541365, AI525500, AI557740, AA170832, AA585439, Z28355, D60765, D54897, D60844, D59436, Z33559, AI557809, AI557718, R29218, AI546999, AA585329, AI541535, AI541517, AI557731, D54850, D52835, AI526016, R28967, R28895, AI546971, AI557727, AI541205, AI526184, AI525556, C16294, C16315, AI547250, AA283326, AI541383, AI535639, AI546875, D55233, D59458, AI540903, AI557763, AI547039, AI557787, D61254, D53447, AI557734, C16300, C16296, AI557084, C16292, C15120, C15762, AA585476, AI526109, D53472, C16293, AI557807, AI541346, AI541013, AI547202, AI546831, AI557533, AI525306, AI526024, C16305, C15737, AI541374, AI541034, AA585356, AI557408, D60730, AI557758, AI546945, AI525431, AI547196, AI557279, AI525339, Z36724, AI526191, AI557155, AI535660, AI526194, AA585430, AI526117, AI557602, AI526112, AI541523, R29179, Z30131, D57186, AI557852, AI546921, AI540974, AI541307, AI546996, AI541321, AI540967, AI546891, AI525320, AI547006, AI525856, AI526158, AI546901, AI557317, AI536138, AI541492, AI557808, AI526168, AI526146, C14208, AI541422, AA585453, R29262, AI525656, AI546829, R29172, AI526113, AI541402, AI557264, AA585389, AI557799, C16290, AI541527, AI526195, R29177, AI541515, AI526176, AI557810, AI557039, AI541423, AI556967, T19407, AI547189, AI525114, AI557786, AI524904, AI525076, C14210, AI526073, AI547137, AI557041, AI541516, T41289, AA514191, AI541510, D61060, AI526205, AI526169, AI541415, AI526180, AI541027, AI546954, AI526187, AI525332, AA585434, AI525286, AI557785, AI557238, AI524891, AI540944, AA585117, T41329, C14322, AI541345, AA585420, AI557796, AJ239433, AI540920, AI546828, AI541506, AI557082, AI524890, C14391, C14723, AA174170, AI526026, AI547158, AI541075, AI547026, AI540928, AI046024, AI540882, AI557285, AI547122, AI546841, AI541514, D51413, AI557802, AI541017, AI547138, AI541390, AR062871, A25909, AR038855, X82786, Y09813, X76012, AR031358, AR031365, AJ243486, AJ244005, Y16359, AF082186, AR038762, Z32836, AR054723, X81969, D50010, D13509, X55486, AJ243004, A20702, AR062872, AR062873, A20700, D78345, A43189,

HNGBI35	4007	574403	1 - 126	15 - 140	A43188, AR017826, AJ244006, AR017907, AC005913, AJ244003, AR003381, Z30183, A62298, AF213384, AR050070, A82595, A82593, AF006072, A98420, A98423, A98432, A98436, A98417, A98427, X82834, and L36913.
HNGBI70	4008	781978	1 - 429	15 - 443	N72393.
HNGBI88	4009	574409	1 - 331	15 - 345	AC002310.
HNGBI95	4010	785983	1 - 223	15 - 237	AC005215.
HNGBJ40	4011	948741	1 - 563	15 - 577	
HNGBJ84	4012	573072	1 - 295	15 - 309	
HNGBJ96	4013	574474	1 - 286	15 - 300	AC007380.
HNGBN36	4014	526808	1 - 425	15 - 439	
HNGBO34	4015	932408	1 - 412	15 - 426	
HNGBP21	4016	671258	1 - 498	15 - 512	H02689, T73124, AL080280, AL080281, and A68194.
HNGBP28	4017	421816	1 - 201	15 - 215	
HNGBP35	4018	526806	1 - 293	15 - 307	
HNGBQ20	4019	859846	1 - 523	15 - 537	
HNGBQ75	4020	573047	1 - 339	15 - 353	
HNGBS88	4021	575561	1 - 404	15 - 418	
HNGBT44	4022	574400	1 - 343	15 - 357	AA594214, AI612901, AC002365, AC002300, AC005921, AC003684, AC004778, and Z98946. AA252763, AL133723, AW193265, AI284640, F36273, F33566, AI688846, F29989, AA858197, AI446464, AI350211, AA824654, AA678436, AW193432, AA515435, AA824655, AA350859, AA810370, AI471481, AI053672, AI282832, AI358501, AA515128, AL046409, F31204, AI061334, AA302648, H64777, AI963720, F18974, F37286, AI824562, AA340747, T07451, AI610159, AI431303, AA610491, AI471543, AI049634, AW406755, AI768952, AI358229, AI249997, AA669840, AA977743, AI365988, AA377730, AI963095, AW276827, AI669453, AA747276, AA586655, F25276, AA719805, T29180, F28776, AW339687, AA846955, F30933, AI635272, AI064864, AI270117, AW193609, AC006287, AC004006, AF117829, AL133163, Z99571, AC006965, Z93928, AF027390, AC012599, AC007014, AL022329, AC005799, AC008125, AC002303, AL031650, AL109657, AL078638, AL021918, AL021368, AC007685, AL121578, AC005409, AF130342, AL078644, AC005911, AL021808, Z84480, AC005066, AC008071, AC007227, AC003050, U91319, AC006549, AC006367, AC006153, AC007221, AC006042, AL035551, AL078593, AC006322, Z97196, AC005751, AL049830, AL096861, AL035089, AC005291, AL049775, AC006195, AL096791, AC006012, AC004673, AC006500, AL022163, AC004869, AC010072, AC004485, AP000036, AL049697, AP000260, AC004690, AC005189, U91322, AC005324, AP000069, AC005303, AC021092, AP000099, AC007590, AL022160, AC004470, AL031433, AC006525, AP000355, AC007326, AF196971, AC006213, AB020858, AL078604, AC007687, AC006561, AC006238, AL033517, AC005755, AC004686,

HNGBT58	4023	577325	1 - 323	15 - 337	Z82975, AC003684, AL121658, AL023799, AL035086, AL135744, AC005914, AC005792, AC002386, AL035667, AJ229041, AC004025, AP001172, AC007043, AC006043, AC006313, AC007436, AC005699, AC000385, AF029308, AC002984, AL021307, AC005015, AC004554, AC016025, AL034548, AF045555, AC007845, AL031584, U69730, AL109798, AC005191, AC007262, AC003003, AP000359, AC002289, AL078639, AC005722, AC007681, AC005081, U73633, AP000567, AL049845, AL109939, AJ011930, AL021155, AC004804, AC009223, AL121823, AL022727, AL049776, AC002367, AC005255, AP000159, AF181896, AC006017, AF165926, AC005013, AC003001, AP000020, AC004806, AC004547, AL049588, AC007363, AL133238, Z83840, AC005301, AC003083, AC006211, AC005400, and Z97181.
HNGBT72	4024	579064	1 - 358	15 - 372	AW162493, AW298244, AA435512, AW295626, AW295622, AA527713, AA663337, AA393547, AC005057, AC007536, AC005520, U82670, Z59900, and Z59880.
HNGBU15	4025	574467	1 - 209	15 - 223	
HNGBV67	4026	574468	1 - 420	15 - 434	
HNGBW63	4027	574466	1 - 216	15 - 230	
HNGBX64	4028	574472	1 - 96	15 - 110	
HNGBZ16	4029	667293	1 - 414	15 - 428	
HNGBZ17	4030	575717	1 - 437	15 - 451	AC005332.
HNGBZ20	4031	812895	1 - 318	15 - 332	
HNGBZ55	4032	573069	1 - 249	15 - 263	AI761359.
HNGBZ92	4033	574464	1 - 218	15 - 232	
HNGCA47	4034	574465	1 - 192	15 - 206	
HNGCA61	4035	574461	1 - 278	15 - 292	
HNGCB44	4036	674670	1 - 389	15 - 403	U95740.
HNGCC47	4037	926947	1 - 130	15 - 144	
HNGCD08	4038	959963	1 - 365	15 - 379	
HNGCE85	4039	970738	1 - 293	15 - 307	AA292726, AA887639, AI351774, AI655222, AW009008, and AI989605.
HNGCF09	4040	527972	1 - 139	15 - 153	
HNGCF28	4041	574397	1 - 222	15 - 236	
HNGCG83	4042	868075	1 - 389	15 - 403	H86238, and AC005670.
HNGCH05	4043	932404	1 - 476	15 - 490	H92525, H48715, AI085029, H90375, AA075537, R01389, AA668973, AI352404, AW103601, AI217313, W88502, H70430, AA528363, Z84480, AC003103, AC002352, AF196969, AC000357, AC005335, AC007535, AC003101, AC005520, U91322, Y11535, AF006752, AC005546, AC006162, AC005072, U82668, AL023913, AC002350, AC004834, AF061032, AC001228, AB018503, AC008989, AC005902, AC004887, AL035249, AC006166, AC006165, AB023051, Z73979, AC006313, Z98950, and AC006430.

HNGCI02	4044	920722	1 - 224	15 - 238	
HNGCI11	4045	967513	1 - 456	15 - 470	
HNGCI17	4046	526807	1 - 403	15 - 417	
HNGCI53	4047	825377	1 - 403	15 - 417	
HNGCI69	4048	574456	1 - 264	15 - 278	
HNGCK34	4049	706561	1 - 193	15 - 207	
HNGCK82	4050	796479	1 - 130	15 - 144	
HNGCK93	4051	574458	1 - 262	15 - 276	
HNGCL31	4052	571332	1 - 395	15 - 409	AI025072.
HNGCL55	4053	574453	1 - 377	15 - 391	
HNGCM05	4054	932409	1 - 133	15 - 147	
HNGCO37	4055	708694	1 - 396	15 - 410	
HNGCO45	4056	573055	1 - 370	15 - 384	
HNGCO86	4057	779203	1 - 365	15 - 379	D80045, D80212, D80157, D80268, D80248, D80195, D59502, D80439, D59619, D80210, D80240, D81026, D81030, C14389, D80164, C15076, D80219, D59653, D80022, D80166, D80193, C06015, D80302, D59467, D80391, D59275, D80038, D59787, D80227, C14331, D80269, AA305409, D58283, D80196, D80247, D50979, D59859, D51423, D51799, D80253, D80043, AA305578, D59927, D80133, D80366, D80188, D51022, D80522, D50995, AA514188, C14014, D51060, D59610, D80378, D51103, D57483, D59889, AA514186, D80024, D51759, AW177440, AW360811, C14429, D80241, D80251, AW178893, C75259, C03092, AW377671, AW375405, AW360844, C05695, AI525923, D59373, AW377676, T03269, AW178906, AW366296, AW178986, AW378534, D45260, AW179328, AA809122, T48593, D80258, AW375406, AW378534, AW179332, D59503, AW377672, H67854, AW179023, AW178905, H67866, AW177731, AW378528, AW178762, AW179019, AW378532, T03116, AI525917, D80064, T11417, AW177501, AI535686, AW177511, F13647, D51213, AW378533, AW179020, AW352171, D59317, AW352170, D58246, C14227, AW178907, AW177733, AW178908, AW179024, D51221, AW360834, AW177734, D81111, D51250, AI525920, C14344, AW360841, D80014, AW352120, D59551, C14973, AI525227, AW177505, AW367950, AW178775, AW178909, AW177456, AW179004, AW179329, AW178980, D59695, AW178914, D80949, AW178774, AW178754, AW179018, AW352158, AW176467, D59474, AW352117, Z21582, D60010, AI525925, AA514184, D80228, D60214, AW177728, C13958, AI525235, D58101, D52291, AI557774, D45273, AW179017, C14957, C14046, C14407, AW179009, AIV179012, AW178911, AW378543, AW378525, AW378540, AW177722, AW352163, AI525242, D59627, D80388, C05763, D80168, AI525237, AW179013, AI525222, AI525912, AA285331, AW378542, AI557751, AI525215, AW178781, C14298, AW378539, C16955, AI525928, Z33452, T02974, AI910186, F13796, AW360855, T03048, D51053, AI535663, T02868, H67858, C04682, D31458,

HNGCQ37	4058	1 - 325	15 - 339	A82595, AR060385, A84916, AB028859, AJ132110, AB002449, A62300, A62298, AR018138, AR008278, AF058696, I50126, I50132, I50128, I50133, I14842, A45456, AR016514, AR066487, A43192, A43190, X67155, AR060138, Y17188, A94995, D26022, A26615, AR052274, Y12724, AR038669, A25909, A30438, AR066488, A67220, Y09669, D89785, A78862, D34614, AR054175, AR008443, Y17187, A63261, D88547, AR008277, AR008281, AR016691, AR016690, U46128, AR062872, D50010, A70867, AR016808, X82626, AR008408, I79511, A64136, A68321, AR060133, I82448, and AR025207.
HNGCU24	4059	1 - 137	15 - 151	
HNGCU70	4060	1 - 141	15 - 155	
HNGCW38	4061	1 - 308	15 - 322	AC005920.
HNGCW81	4062	1 - 389	15 - 403	AW104496, and AA485071.
HNGCW82	4063	1 - 348	15 - 362	
HNGCW83	4064	1 - 126	15 - 140	
HNGCX07	4065	1 - 334	15 - 348	
HNGCY37	4066	1 - 546	15 - 560	AI564185, AA829565, AL133246, AC002416, AL031587, AP001052, AC006071, AL080243, AC004386, AL109759, AF001552, U52111, AL109798, AC005156, AC002546, AC006013, AL049776, AC005911, AC009336, AL049539, AC008372, AL035587, U85195, AL022165, AL035089, AC005411, AL049760, AF205588, AC004526, AJ246003, AP000031, AC005069, AC005342, Z68285, AL121658, AC004552, AC005225, AL109628, AC006111, AL021707, AC005255, AL109963, AE000658, AC004019, AC005971, AF111168, AL031255, AC007773, AC002470, Z86090, AL033527, AC004805, AL031229, AL117329, AL022322, AP000359, U95742, AP000008, AP001037, AC005632, AP000704, AC006480, AC003109, AC008040, AC004770, AC009308, AL031387, AC006449, AL133448, AL022476, AC004478, AL031274, AL021579, AC007488, AC007543, AC006241, AC007221, AC005484, AL049829, AL008726, AL049766, AL109847, AF045555, Z93023, AC005102, AC002350, AC005072, AC007981, AC005914, AF064861, AL050318, AC005562, AC005081, AC009248, AC004659, AC004139, AL024474, AP000555, AL035455, AC004859, AL133163, AC005703, AC005488, AC002302, AL049692, AC007283, AL133245, and AC004134.
HNGCY41	4067	1 - 272	15 - 286	
HNGCY43	4068	1 - 333	15 - 347	AC002127.
HNGCY59	4069	1 - 784	15 - 798	AA649070, AA210872, AA809496, AI567520, AA405464, and N67248.
HNGCZ13	4070	1 - 394	15 - 408	
HNGDA09	4071	1 - 220	15 - 234	
HNGDA56	4072	1 - 324	15 - 338	
HNGDB25	4073	1 - 364	15 - 378	

HNGDB65	4074	526852	1 - 248	15 - 262	AL022101, and AL023753.
HNGDD30	4075	573021	1 - 421	15 - 435	
HNGDD39	4076	709270	1 - 150	15 - 164	T18597, AA585325, Z32822, AA585378, R45895, AA585098, R29657, Z32887, D59751, D53161, AA585329, AA585101, C15406, D57491, D61185, Z33559, R28735, R29445, D59458, AI557718, AI525316, AI541356, AI557262, C15069, AI557864, AI557740, AI526078, AI525500, D51433, R28892, D59436, R28965, D54850, AI541517, AA585439, Z28355, AA585155, AI526140, AI541365, R28967, AA170832, AI535639, D60765, D54897, D60844, Z36724, R29218, AI541205, AI557809, AI525556, AI557727, AI557731, AI546831, AI546971, R28895, AI535660, AI541535, AI557787, AI526016, AI526184, AI540903, C16294, C16315, AA585430, AI541034, AA283326, AI557084, AI541383, AI546999, AI557533, AA585356, AI546875, AI547250, D55233, AI557763, AI547039, D61254, D53447, AI557734, C16292, C15120, C15762, D52835, AI526112, AI526117, D53472, AA585476, AI557408, AI541346, AI557602, AI557807, C16300, AI541013, C16296, AI525339, AI526024, C16293, AI557852, D30843, AI525306, AI547196, C16305, C15737, AI525302, AI541374, AI557155, AA585389, AI557317, AI526109, AI536138, AI547202, D60730, AI525168, AI557758, AI526146, AI546945, AI525431, AI526158, AI526191, AI541515, AI526194, AI540974, AI541321, AI541307, AI525320, AI541492, AI546901, AI557279, AI557810, AI547140, Z30131, AI557808, AI541423, AI525856, AI526176, D57186, AI557264, AI541353, AI557799, AI541516, AI547189, AI546996, AI540967, AI546891, R29179, AI541402, AI547006, AI546829, AA585453, AI525114, AI526195, AI541422, AI557041, C14210, C14208, AI541527, AI525656, AI526169, AI557039, D61060, AI525076, AA585434, AI526113, R29262, R29172, C16290, AI524904, R29177, AI524891, AI541027, AI540944, AI556967, AI557786, AA585117, T19407, AI546954, AI525332, AI526073, AJ239433, AI547137, AA585420, AI557238, AI557796, AI541510, T41289, AA514191, AI524890, AI526187, AI557785, AI526205, AI540928, AI541506, AI541415, AI541075, AI547158, AI541345, AI541450, AI525286, AI546828, D51413, AI557082, D50992, AI526026, AI046024, AI547122, AI546841, AI540920, AI557802, AI557285, AI547026, AI547138, AI557543, AI541362, AI540882, AR062871, A25909, AR038855, X82786, Y09813, X76012, A85395, A70872, A70869, A85476, U94592, AR031358, AR031365, AR037157, U87250, AC005913, AJ243486, AR017826, AJ244006, AJ244005, Y16359, AF082186, AR038762, Z30183, AR003381, AF213384, X81969, Z32836, A62298, AR054723, D50010, D13509, AJ244004, X55486, A20702, AR062872, AR062873, A20700, D78345, A43189, A43188, AR050070, A82595, A82593, AR017907, AF006072, AJ244003, X82834, AF135243, AB005666, L36913, and AJ131952.
HNGDDD73	4077	764596	1 - 452	15 - 466	AC005390.
HNGDE07	4078	953858	1 - 239	15 - 253	
HNGDE31	4079	794124	1 - 382	15 - 396	AF109718, AC004908, AC006328, AC004916, AC004842, and AL133216.
HNGDF48	4080	723368	1 - 147	15 - 161	AL022098.
HNGDF72	4081	766217	1 - 315	15 - 329	AC004914.

HNGDG86	4082	1 - 310	15 - 324	
HNGDH09	4083	1 - 364	15 - 378	
HNGDH37	4084	1 - 201	15 - 215	
HNGDH52	4085	1 - 422	15 - 436	
1INGDH96	4086	1 - 427	15 - 441	
HNGDK17	4087	1 - 351	15 - 365	
HNGDK41	4088	1 - 375	15 - 389	AA354141.
HNGDL32	4089	1 - 355	15 - 369	U51561.
HNGDL72	4090	1 - 90	15 - 104	
HNGDL93	4091	1 - 170	15 - 184	
HNGDO17	4092	1 - 680	15 - 694	
HNGDP10	4093	1 - 437	15 - 451	AW392414, AA721530, AA657910, R76962, AA362349, AL039309, AA211734, AA946848, R69527, H43771, AA714073, AA362348, AI471455, R87275, AI217131, H86221, AA429481, AA721523, AA483606, H84412, W63553, AI687343, AA570740, AA568204, AI306717, AW117723, H62550, AI130709, AI536858, AI537995, T69879, AA019003, AL041352, AW029269, AI368732, AI814682, AI758799, AI291439, AA488689, AI708152, R87883, AW190277, AW272640, AW117704, AA805848, AA355367, AA018923, AA012829, AA489240, AL037052, R33734, AW148775, AI298787, AI215784, AA831801, T40629, H67064, AI473671, U51704, Z95327, AF196970, AF141325, AL022311, AC007207, AC007201, AC005796, AC005829, AL035458, M31303, X94912, AC006360, U29874, AC007880, Z49235, AC002037, AC007707, AP000694, AC004817, AD000684, AC002128, Z83845, AL049733, AC006101, AC005828, AL121754, AC004491, AP000501, AC003667, AC003070, AP000030, AF030453, AC012039, AC005088, AC005237, AP000248, AL034549, AC005920, M87889, AP000065, AL049776, AC003690, AC003072, AC000075, AC000084, AC002491, AP000313, AC007199, AP000193, AL049843, AP000050, AL023877, AL034417, AC008044, AL023775, Z95115, AC002400, AC007993, AL031667, AP000117, AC005666, AL022721, AC008009, Y10196, AC008018, AP000347, Z98749, AC004815, AL022331, AC016831, AL049540, Z98051, Z93244, AC002351, AC005274, AC005201, AL022326, AC007161, U85195, AE000658, AL135879, AL121790, AC005081, AC004647, AC005480, AL031666, AL024508, Z73417, AC005914, AC005015, AL034402, AB020690, AC005328, AL031721, AF006487, AC006275, AC004257, AD000813, AF027974, AC005619, AC004611, Z82243, AC004694, AL021453, AC004814, AP000289, Z98743, AL031905, AC005773, AP000042, AP000110, AC004996, AL050341, AC004079, AC005663, AC004703, AC003983, Z95113, AC005924, AF196972, AC004941, AB017602, Z84466, AC005664, AL049759, AC005844, U52111, AC007276, AC008064, AL080243, AC006547, AC005261, AL049780, AL022318, AC006530, AC003101, U47924, AC000353, Z93241, U94776, AP001056, AL031728, AC005071, AC002477, AC007363, AL035249, AC006210, AL034420, AP001054, AC007429, AL031407, AL008725, AP000348,

HNGDP13	4094	574484	1 - 452	15 - 466	AF050154, AC002389, AC006388, AC002369, AL031594, AC004217, AL008583, AL031291, AL096678, AC007533, AC007358, AP001053, AC009946, AL133448, AC005516, AC004084, AL049575, AC004962, Z83851, Z85986, AF196779, AC000044, AC000034, AF003626, AC006055, AC006538, M89651, and AC006014.
HNGDP27	4095	574482	1 - 433	15 - 447	AI962959.
HNGDP29	4096	574488	1 - 401	15 - 415	
HNGDP30	4097	574480	1 - 351	15 - 365	AC005866.
HNGDP71	4098	574481	1 - 348	15 - 362	
HNGDP74	4099	860669	1 - 487	15 - 501	
HNGDP89	4100	574478	1 - 389	15 - 403	
HNGDP95	4101	574477	1 - 315	15 - 329	
HNGDR19	4102	953672	1 - 376	15 - 390	
HNGDR42	4103	657404	1 - 284	15 - 298	
HNGDR79	4104	572904	1 - 248	15 - 262	
HNGDR81	4105	572901	1 - 364	15 - 378	
HNGDR88	4106	860666	1 - 311	15 - 325	AC004408.
HNGDS04	4107	572909	1 - 533	15 - 547	
HNGDS59	4108	576763	1 - 250	15 - 264	AL035469.
HNGDS96	4109	796488	1 - 504	15 - 518	
HNGDT36	4110	572895	1 - 400	15 - 414	
HNGDU45	4111	722062	1 - 504	15 - 518	AP000274, and AP000105.
HNGDV22	4112	572910	1 - 432	15 - 446	
HNGDV25	4113	573152	1 - 287	15 - 301	AF118808.
HNGDV59	4114	739407	1 - 98	15 - 112	AC006166, AB023051, and AP000512.
HNGDV96	4115	796487	1 - 501	15 - 515	AP000345.
HNGDW23	4116	576773	1 - 420	15 - 434	
HNGDW62	4117	573162	1 - 290	15 - 304	AP001054.
HNGDW95	4118	661943	1 - 488	15 - 502	
HNGDX50	4119	860661	1 - 300	15 - 314	
HNGDY12	4120	870390	1 - 585	15 - 599	AC006263.
HNGDY14	4121	968042	1 - 258	15 - 272	
HNGDY39	4122	572908	1 - 396	15 - 410	AC005702, and AC003976.
HNGDY92	4123	920168	1 - 409	15 - 423	AL033538.
HNGDZ52	4124	572865	1 - 348	15 - 362	
HNGEA44	4125	572855	1 - 149	15 - 163	

HNGEA82	4126	778879	1 - 165	15 - 179	AL021367.
HNGEA88	4127	578911	1 - 348	15 - 362	AC002492, and AC002045.
HNGEB79	4128	576743	1 - 385	15 - 399	Z97351.
HNGEB81	4129	572862	1 - 299	15 - 313	AP000250, AP000030, AP000133, and AP000211.
HNGEB91	4130	924912	1 - 340	15 - 354	
HNGEC02	4131	917530	1 - 987	15 - 1001	AA585439, AI525328, AI525556, AI535639, AA585453, Z28355, AI541523, AI546855, AI541374, AI525316, AA585440, AI546999, AI525306, AI541514, Z30131, AI526140, AI556967, AA585101, AA585434, AI546899, AI541508, AI557807, AI541510, C15189, AI526194, AI525431, AI557084, AI546945, AA585356, AI541509, AI546828, AI541013, AI541365, AI526180, AI541535, AI547039, AI540967, AI557731, T11028, AI541017, AI535660, AI557799, AI557787, D61254, R29445, C16300, R28735, AI541307, AI536138, AL040625, AL045817, AL041142, AL041238, AL041133, AL047183, AL040322, AL041131, AL046330, AL041051, AL041292, AL040119, AL047036, AL047170, AL047057, AL047219, AL041227, AL040463, AL039915, AL043612, AL041197, AL040155, AL041346, AL040529, AL041096, AL047012, AL041358, AL041277, AL041163, AL040510, AL041098, AL040621, AL043538, AL041324, AL040464, AL044162, AL041086, AL043496, AL041296, AL041233, AI526196, AI526184, AL041159, AL045725, AL041140, AL040193, AL043467, AL044186, AI557262, AL044037, AL040091, AL040128, AL040168, AL040255, AL040285, AL040342, AL040553, AL040332, AL040617, AL045684, AL040745, AL040370, AL043677, AL046442, AL040839, AL040149, AL041752, AL043775, AL043492, T23985, AL043492, AL041602, AL045920, AL041278, AL038838, AL040253, AL044074, AL041635, AI546875, AI525321, AL045990, AL040458, AL044199, AL044187, AL040263, AL040090, AL040294, AL040329, AL040082, AL044272, AL041186, AL040148, AL041730, AL041523, AL043627, AL046392, AI541205, AL041374, AL040052, AL043845, AL043537, AL039338, AL042135, AL044064, AL039316, AL043923, AL038983, AL043814, AL043848, AL041459, AL043570, AL041577, AL044201, AL044258, AL046850, AL038532, AL040768, AL037727, AL046994, AL040414, AL540920, AL040576, AL040571, AL046914, AI142134, AL043753, AL044274, AL079878, AL049018, AL040444, AA585476, AI526144, AL045857, AL039744, AI541345, D57491, AL038822, AL045671, AL046327, AI541168, AL049069, AL043444, AL041246, AL040472, AI557796, C16305, AL040238, T41289, AL041347, AL041955, T23957, AI525320, AL038761, AL040075, AI546891, AI535813, AL080031, AI526187, R29177, AL045989, AI526073, AL046147, AJ239433, AL042096, AL044529, AI541317, AI557082, AL037436, AL039643, AL039360, D55233, AL037435, R29218, T23888, AI557802, AL044125, AI557238, AI525653, AA174170, AI541415, AI541390, AL079852, AL040252, AI525339, AA585155, AI557155, AL045211, AI557727, AL043950, AL134123, AI541506, AI525856, D61185, AI557734, AI541534, R45895, AI557279, AL041210, AL037341, AI557740, AL023494, AR017907, I13349, A91965, X81969, I44681, I66485, I66487, AR008429, AR038855, AR062871, A25909, I66494, I66495, I66498, I66497,

HNGEC06	4132	935840	1 - 303	15 - 317	I66496, I66486, I66481, A85395, I66480, I66490, I66491, I66492, I66493, A83642, A83643, I66483, I66484, A85476, A83151, AR062872, AR062873, AF082186, AJ244004, AJ244005, AR037157, AJ244003, A20700, A43189, A43188, A98420, A98423, A98432, A98436, A98417, A98427, I63120, I18895, A98767, A93963, A93964, AR038762, Y16359, D78345, A84772, X83865, A84776, A84773, A84775, A84774, AR054109, AR067731, AR067732, A86792, A58522, A91750, AJ244007, A18053, M28262, A60212, I15717, A60209, A60210, A60211, I15718, E03627, I49890, I48927, A02712, A77094, A77095, I84553, A81878, A95051, I84554, A18050, A23334, A75888, I70384, A64973, A60111, A23633, AR007512, I08396, I00682, A11623, A11624, E00609, E13740, A11178, E01007, A10361, A35536, A35537, A02135, A04663, A02136, A04664, I06859, I08395, AR043601, I19525, A11245, I03331, A02710, E12615, AR035193, E14304, A07700, A13392, A13393, I62368, AR031488, I13521, I52048, A27396, AR027100, I44531, I28266, I21869, I44516, A70040, E16678, A82653, E16636, A93016, A24783, A24782, A92133, A95117, A58524, A58523, A90655, AF149828, I01995, I08051, AR031566, I25027, I26929, I44515, I26930, I26927, AR038066, A32110, I60241, I60242, A20699, E00696, E00697, E03813, AR009151, AR027099, AR051652, AR051651, U94592, I05488, I61310, Z32836, A60961, A60977, Y09813, D50010, AJ230935, A91752, I08196, AR028564, A68112, A68104, AJ230902, A06419, A21892, A23997, A68114, A89633, A89634, A60985, A21895, A60990, A47368, A05160, A08030, A20502, A60987, AR027319, I19516, I19517, A91751, A76773, AR027318, A22413, I05558, A29109, A32111, AR002333, I63560, AR009152, I63561, I63563, I07249, I08776, I15353, AR068508, AR068510, AR068509, A63954, I91969, AJ230972, I58322, I58323, AR003585, A38214, I25041, I56772, I95540, A95096, A95106, A95105, AR035975, AR035974, AR035977, AR035976, AR035978, AJ230951, A70872, X07299, AJ231009, I08389, A62298, A22738, D13316, A70869, D13509, AB025273, and A25246.
HNGEC41	4133	782294	1 - 433	15 - 447	AL050321.
HNGEC43	4134	573040	1 - 425	15 - 439	
HNGEC44	4135	806031	1 - 626	15 - 640	
HNGEC75	4136	916809	1 - 619	15 - 633	AJ420921, and AJ139760.
HNGED03	4137	924696	1 - 295	15 - 309	
HNGED21	4138	920156	1 - 335	15 - 349	
HNGED77	4139	572868	1 - 358	15 - 372	AA501465.
HNGED91	4140	790309	1 - 450	15 - 464	AL120191, H71450, AW339743, AI053560, AW302753, AW301906, AI144081, AW302711, AI953573, AI133727, AAS14024, AL020993, AL109865, AC004671, AL118516, AL050332, AC006285, AC016025, AL031773, Z98743, AC004841, AC002418, AC004386, AL033380, Z49250, AC005225, AF165138, Z84486, AC006080, AL022727, AC005945, AC005795, U66083, AL109963, AC000004, AL121852, Z94160, AC005150, AC002044, and AC004262.

HNGEE18	4141	573018	1 - 308	15 - 322	
HNGEE39	4142	573065	1 - 293	15 - 307	
HNGEF58	4143	708692	1 - 338	15 - 352	
HNGEG45	4144	572880	1 - 335	15 - 349	
HNGEG74	4145	860685	1 - 404	15 - 418	
HNGEG85	4146	784431	1 - 353	15 - 367	
HNGEG86	4147	573049	1 - 273	15 - 287	
HNGEI22	4148	967310	1 - 349	15 - 363	
HNGEI47	4149	720471	1 - 439	15 - 453	
HNGEJ04	4150	932199	1 - 239	15 - 253	
HNGEJ22	4151	573066	1 - 182	15 - 196	
HNGEJ35	4152	934987	1 - 545	15 - 559	F16345, AA353081, AI054090, AI251944, AW169469, AW243945, AA489897, AI358008, AI251024, AI246061, AA594705, AI376197, AI567941, AL119563, AI927393, AW275432, Z94161, AC005081, AC004386, AL023807, AL031255, AL050318, AC006064, U91326, AC005778, AC005822, AC005971, AC004674, AL022336, AC007216, AC007055, AL133246, U02051, AL080242, AF030453, AL080243, AF045555, AL022326, AC002425, U95742, AC005088, AC005200, AF001549, AL109628, AL049636, AC005015, AC004491, AL008582, AC007011, AL133396, AJ011930, AC002565, AC007406, AL031597, AC002357, AC005280, AC002504, AC002527, AC003029, AC004148, AC003104, AC003966, AC005317, AC003982, AC002395, AP000689, AC006241, AC004913, Z85994, AC005796, AC004841, AC004922, AF001548, AC007283, AC007227, AL133163, AP000211, AL021155, AL009183, Z73359, Y17293, AC005529, AC006274, AL132992, AL035587, AC006130, U95740, AL031846, L76568, AL023879, AC006126, AC007066, AC003957, AL049776, AJ003147, AC007050, AL050333, AP000355, AF001550, AL050307, AC006441, AC005049, AC007205, AC006530, AC002347, AC002991, AC004019, AC007191, AF047825, AP000690, AC022517, U85195, Z92542, Z84466, AC007371, AC004149, AC007312, AC004821, AE000658, AC007666, AL034549, AC007934, AC006121, AC006285, AL132712, AC005696, AD000812, Z99716, AC006544, AL022476, AC016025, AC004929, AC004883, AC009946, AC007225, U91323, AC004031, AC004213, AC005069, AF196969, AP000359, AL022163, AC004526, AL021808, AC006077, AC004383, AC007731, AC007308, AC005919, AF003626, AL049759, AP000493, AC004991, AC007239, AC005500, AC005562, AC004893, AP000255, AC005249, U78027, AC005755, AC002126, Z84467, AP000549, AC004859, AL034379, AL080313, AC005988, AL035071, AC005516, AC005189, AC007536, AC002470, AC002430, Z68324, AF196779, AC004560, AC004797, AC007384, AL049540, AL117344, AC005993, AB022785, AF053356, Z83838, AL035422, and AP000228.
HNGEK30	4153	572864	1 - 263	15 - 277	

HNGEK44	4154	576745	1 - 442	15 - 456	N21074, AW089204, AI433104, H67851, AA323110, AI061076, AL031273, AC016027, AC016830, AC004408, AC006344, AC009721, AC000353, AC003029, AL096774, Z86090, AC005231, AL049830, AC004522, AC005383, AC005901, AC008115, AC018767, AC004841, AC006277, AC003098, AC006141, AF111169, AC005730, AP000555, AC005229, AC002418, AC004386, AC004216, AC003982, AF141325, AL020997, AL021939, AC007688, AC006071, AL049776, AC005899, AC005004, AL033525, AC002492, and AL031291.
HNGEK68	4155	753159	1 - 328	15 - 342	
HNGEL62	4156	958363	1 - 576	15 - 590	T83534.
HNGEL92	4157	572867	1 - 359	15 - 373	
HNGEM38	4158	573041	1 - 361	15 - 375	
HNGEM53	4159	860643	1 - 388	15 - 402	
HNGEN37	4160	663955	1 - 397	15 - 411	
HNGEN45	4161	572876	1 - 350	15 - 364	
HNGEP55	4162	732262	1 - 351	15 - 365	
HNGEP61	4163	576749	1 - 296	15 - 310	
HNGEP64	4164	860631	1 - 1144	15 - 1158	AI583142, AC004491, AL022165, AL034549, AC005015, AC005585, AC004104, AC002352, U63721, AC002045, AC004997, AL020997, AC005089, AC005412, AC002554, AC002400, and AC007425.
HNGEP70	4165	572858	1 - 359	15 - 373	
HNGEP75	4166	766574	1 - 422	15 - 436	
HNGEP77	4167	861710	1 - 417	15 - 431	H14806, AW410740, AI434025, AC009542, and AC009330.
HNGEP81	4168	778161	1 - 867	15 - 881	
HNGEQ07	4169	953647	1 - 616	15 - 630	AW407886, AW239264, and AR062112.
HNGEQ32	4170	572984	1 - 266	15 - 280	AI092509.
HNGEQ67	4171	860687	1 - 297	15 - 311	
HNGER25	4172	572873	1 - 85	15 - 99	AL021921, and U95738.
HNGER43	4173	699391	1 - 302	15 - 316	AC007563, AC000030, AL023095, Z93928, AC002523, AC005035, AF043945, and AL008634.
HNGER67	4174	578903	1 - 495	15 - 509	AF104455.
HNGER82	4175	945838	1 - 625	15 - 639	R16017, AA570454, R02443, R16118, T77361, R06273, and T77056.
HNGER84	4176	586451	1 - 355	15 - 369	AI763088, AL135549, AC010385, AJ223814, AC010385, AJ223777, X99326, and AF042089.
HNGER96	4177	922996	1 - 505	15 - 519	
HNGES56	4178	733543	1 - 291	15 - 305	
HNGES59	4179	490034	1 - 600	15 - 614	F30908.
HNGES89	4180	573013	1 - 418	15 - 432	
HNGET07	4181	953618	1 - 397	15 - 411	
HNGET31	4182	506498	1 - 460	15 - 474	

HNGET67	4183	953529	1 - 356	15 - 370	
HNGEU35	4184	853582	1 - 724	15 - 738	AI046457, AI826263, AA604333, AW402063, AA359347, AA101689, AW021583, AA679936, AA846952, AI963720, AL044441, AA502104, N48230, AI732120, AA507824, AI561060, AA487621, AI686267, AA680243, AI696955, AA707833, AA665021, AW080120, AA666052, AA126450, AA548058, AW070892, AW302013, AA773153, AW102849, R79698, AA745326, AI635279, F17149, AI811809, AA806796, AI733755, R40056, AL042753, AI499588, AA610777, AI669453, AA508034, AA250819, AA639173, AA713626, AW440497, AL119713, AC005015, AC005081, AL020993, AL121603, AC002425, AL022316, AL096791, AC005071, U95740, AC004983, AC004150, AC006312, AL022163, AC003080, AL024507, AC007551, AC005736, AL049569, AP000240, AC005037, AC007227, AC009399, AC006449, U95742, AF088219, AC004019, AC002365, AC002350, AC005839, AL035079, AL121694, AL031577, AL023807, AL031283, AC004638, AL034429, AC007243, AC006115, AC005585, AC002492, AC005231, AL096774, AC005102, AC004263, AL021155, AC006116, AF109907, AL035072, AC005486, AC009516, Z97053, AC002470, AC002565, AC005996, AF045555, AC007216, AL022721, AC005089, AC007999, AL049869, Z68870, AC004216, AF053356, AL109827, AC006057, AC004821, AC004876, AC016025, AC002395, AP000689, AC002070, AP000557, AC004491, AC007546, AL050318, AC002314, AC005722, U47924, AC002310, AC004990, AL132992, AC004966, AP000201, AP000555, AL132777, AC007384, Z83840, AC005666, AC005519, AC006271, AC006211, AC004882, Z82201, AC005041, AC004859, AF031078, U80017, AP000097, AL121655, AC007510, AL035423, AC005423, AC004531, AC004686, AC006241, AC006261, AC005527, AL009179, AC002472, Z85986, AC005914, AC004686, AC005031, AF030876, AC007207, AC007387, AC003982, AL035071, AF196969, AC007664, U91323, AC005154, AL031311, AL021546, AL034451, AC004815, AC004815, AC003681, AC006948, Z84469, AC004841, AC006285, Z93017, AP000133, AP000211, AL035695, AC002301, AC005829, AL050341, AL031767, U91326, AC007225, AC007999, AL035695, AC002072, AL031659, AP000556, U82671, AC004699, AP000553, Z95116, AC005899, AC008372, AC002430, AL022322, AL080243, AJ246003, AC004878, AC008101, AC006547, AL031680, AC006111, AL021807, AC006388, AL109984, AP000493, AC004929, AC002429, AC002316, AL022315, AC002563, AL035415, AC005291, AC004668, AC005480, AC002400, AC004972, AC005783, AL078477, AC007676, AC007011, AC006537, AC003108, AC007919, AL022311, AC005288, AL049759, AP000209, AP000131, AC000004, AC006080, AC007984, AF038458, Z83838, AC006965, AC007388, AC007686, AC005844, AC005180, AC005193, AC005821, AC007298, AC007845, AC004560, AL031594, AJ010770, Z83822, AC006023, AC005529, AB023049, AC006207, Z99716, AL023879, AL021154, AL023575, AC005632, AC007421, AC005358, AL035089, AP000346, U85195, AC005162, AC012384, AC004598, AJ006345, AC005726, AC004905, AC004813, AL136295, AF064861, AL133246, AF205588, AL031584, AC004671, AL031427, AC007324, AC006544, AL109801, AC011718, AC006480, and AL035659.

HNGEU37	4185	860626	1 - 134	15 - 148	
HNGEV33	4186	781207	1 - 400	15 - 414	AA378548, and AC005071.
HNGEV34	4187	490914	1 - 517	15 - 531	AW275432, AA601376, AIT91659, C15966, AL048969, AW151247, AA730872, AA761606, AI521525, AI090377, AW020150, AI224583, AA761714, AA719564, AI926102, R23873, AA573067, R42954, AA831426, AI613459, AA298365, AA501807, AI801563, AA586474, AA723132, AA493546, AA064983, AW270652, AAI35761, C14614, AA504924, AI720671, AA174108, AA489390, AA525807, AW272389, AA565338, AA654705, AA661583, AA516242, AA470612, AA526542, AA297208, F23338, AA708751, AA555131, AW264548, AA503144, AI754421, AI879968, AA218684, AL134338, AA767558, AI309943, AA420787, AW008089, AA493245, AA350886, AA524604, AW194046, AA515165, AI678812, AT798521, D44672, AA738014, AA729350, AI049845, AI040313, AI910609, AA808875, AI952885, AL079734, AI760835, AA084320, AA718906, AA984114, AA484892, AI148245, AI804539, T15873, AI925423, AL042667, AA669711, AI635440, AI148353, AA056619, AA482725, AI567402, AA653221, AI986251, AA765768, AI128353, AA601333, AI431232, AC008585, AC005520, AL079295, AC006132, AF111168, R43331, AC005399, AC009247, AL049757, AC005519, AP000037, AL023281, AL005632, AP000555, AC007226, AL022334, AL122023, AL031680, AL133371, AC006430, AC005696, Z98946, AC004583, AC005730, AC005839, AL031295, AF067844, AC004491, AL031670, AL049694, AC002470, AC006531, AL033527, AC007263, AC005754, AB023048, AC005736, AC006468, AC005291, AC002302, AC005921, Z77249, Z93241, AL109865, AC004815, AC005829, AP000691, AC005234, AC006006, AC008115, AC005215, AL031311, AC007040, AC006241, AP000511, AL034554, AC004999, AC006205, Z98743, AL035086, AC008040, AP000114, AP000046, AC002449, AC007065, AC008072, AP000365, AC004019, AC004834, AC007390, AL022313, AL121655, AC006480, AC006001, AC004673, AC004890, AC008154, AC005011, AC004408, AL133448, AC005768, Z83844, AC000353, AC004386, AC007021, AC006511, AL034379, AL121769, AC002301, AL049830, AC005841, U91323, AC004832, AL031283, AL034548, AC002553, AF134726, AF205588, AP000099, AC003043, AP000359, AC005933, AL049766, AL034347, AP000552, U91326, Z84466, AL031123, AL030995, AL049794, U82828, Z98884, AC005229, AC005920, AC002400, AC006958, AL022302, AC008123, AC018633, AC002544, AP000036, D84394, AC006285, U47924, Z85986, AC002492, AC007298, AL049872, AC005081, AL121658, AC005484, AC004081, AC006079, AC010205, AC003108, AC005071, AC004802, AL133246, AC006597, AL035420, AC006101, Z82201, AL024509, Z99716, AP000350, Z86090, AC006115, AL031643, AC003101, Z75890, AC007421, AC004605, AL031121, AC004895, AC003007, AC004686, L78833, AC005015, AL031120, AC004526, U91327, AC004638, AC005013, AC004000, AC005060, AC008498, AC005914, AL133321, Z81369, AC002310, AC004967, AC005261, AJ011930, Z95113, AF001550, AL031255, AC007917, AL035587, AB004907, AF053356, AL009181, AL096763, AC005924,

HNGEV38	4188	572882	1 - 313	15 - 327	AC005776, AC005482, AL135744, Z85987, AC005695, AC004703, AC004762, AF047825, AC005042, AL133163, AL078581, AP000105, AC002115, AL078593, AC005157, Y18000, AC004933, AL031005, AL096703, AF129756, AL022336, AP001068, AC004659, AC004865, AC012384, AC007240, AC005694, AC005209, AC007934, AC006128, AL121603, AL034429, AL031781, AP000503, AC007057, AC007279, AC006509, AL032822, AC004883, AL035398, AC006146, AJ003147, AC005066, AC005041, AL035249, AC004805, AP000694, AL136295, AF207550, U95742, AC006538, Z97184, AC002546, AD000092, AL139054, AC004985, AC005746, AF111169, Z98051, AC005180, AL135783, AC005004, AC008044, AL022476, AC006163, AC005529, and AC002550.
HNGEV40	4189	572894	1 - 302	15 - 316	AC006263.
HNGEV53	4190	573090	1 - 301	15 - 315	
HNGEV59	4191	576750	1 - 305	15 - 319	
HNGEV65	4192	750391	1 - 585	15 - 599	AA644587, AA135942, AA004231, AL044969, H30905, R01285, AI079521, R01173, and AC004223.
HNGEV70	4193	573089	1 - 128	15 - 142	
HNGEV75	4194	506312	1 - 246	15 - 260	AL034429.
HNGEV86	4195	789128	1 - 89	15 - 103	H23596, H40504, and H21110.
HNGEV88	4196	750542	1 - 326	15 - 340	
HNGEW18	4197	958328	1 - 336	15 - 350	
HNGEW76	4198	572874	1 - 276	15 - 290	AA362395, AW051064, AI085439, W25284, AA652057, AA649642, AI446464, AA125788, AA348859, AL037876, H13868, AA441788, N71724, R91744, AA329192, AI886176, AI064864, AA095511, AW419262, R76463, AW088058, AW074207, AA654627, AA199660, AA826032, T62712, AI439360, AI623696, F24284, T90706, R45369, AA337978, AA058859, AA368030, AL048616, AA491814, AA147516, AI299050, AW406447, T56472, R93061, AI281903, AW192154, AI371429, N23649, AA332991, AI423625, AA650244, AA199798, F32705, AI003172, AW274101, AA598997, AL138455, AA713767, AA364315, H00934, AA218645, W60516, H72666, AA134367, W95976, W95841, W00796, T53607, AII84354, AL537955, AA318652, AA365347, AL048925, AA654771, AA501722, R24205, AA702023, AA342958, N25296, AW069481, AI925556, H22147, AA714453, AW083402, AA657918, AW021917, AA878140, N66026, AI612032, AA678436, AA557325, F25276, AA127636, AI499503, AI927741, F35659, AA587256, AA888310, AA340003, AA614069, AI049634, R76777, AI348611, D82290, AA309460, T06556, AL135405, AW337237, H03415, AW088984, AA309389, AA828984, R69934, AA167741, R66878, N58534, AI305766, AA246796, AA879430, AW083364, AI926023, AA076632, AW103679, AW103383, AI709066, H16048, AA932099, AA489775, AA578141, H77643, AA581342, AA338522, AA919037, AA649705, AI863283, T16592, AA259245, AA733208, AA533725, R44592, W56200, AA021133, N29941, AW008317,

HNGEX06	4199	935838	1 - 528	15 - 542	AI963095, AA719805, AA377730, AI076616, AI336660, AA557686, AA080863, AI554289, AA057056, AI619997, AC006367, AC002390, AC007685, AC005332, AL049588, AF165175, AC006387, AF001549, U91327, AC009731, AC022517, AL031123, AP000350, AP001038, AL132642, AC002365, AL031904, AC004901, AL022162, AL031665, AL049633, AC004595, AL022302, AC005028, U85196, AB000661, AL031431, AL034419, AL008715, AC000389, AL121578, AL080248, AC006060, AL031655, AC004616, AC006571, AC005529, AL049692, AL023879, AC004804, AL109628, AC004664, AP001068, AL008723, AC002509, Z98049, Z82173, AC004933, AC005157, AL022396, AC006582, AL049833, AC006461, AC004690, AJ229042, AL023799, AC007358, AL022163, AF123462, AC005822, AC004659, AC006559, AJ011930, AL049798, AC004543, AC006019, AL049635, AC005874, AF134471, AC005291, AC007748, AL049836, AC003684, AC008064, AL133163, AC002076, Z96074, AL109847, AC007297, AL136501, AC004820, AL031732, AC005799, AL023754, AL034379, AL020993, AF165147, AC006352, AC005231, AC006359, AC005294, Z84467, AL023876, AL035692, Z97054, AC004593, AC006992, U95740, AL109952, AL009177, AC007051, AC004934, AL078615, AC007129, AC004191, AC005362, AC004226, AC006561, AC006063, AF108083, AC005553, AC005018, AC006556, AJ251973, AC006960, AC003664, AC005728, AC006536, AC007285, AL035420, AC004957, AL122023, AC007707, AC004864, AC002452, AC002981, AC007690, Y18000, AC002488, AC004448, AC005284, AL035258, AL117329, AF117829, AF051934, AP000517, AC005997, AL009179, AC004066, AC005293, AL031594, AC007091, AL139054, AC005486, AF017257, AC008149, Z99755, AF165926, AC006020, AC007157, AC000117, AL021940, AL031584, AF064857, AC004647, AP000493, AC018769, AF129107, AC006376, AL078601, AC002457, AC004911, AL078624, AC005544, AC005161, AL117694, AC004761, AL022069, AP000099, AC005158, AC006196, AC007681, AC007463, AL033392, Z97989, AC009498, AL132712, AP000432, AC004097, AL078621, AC004673, AC007543, AC003998, AL096861, AP000555, AC006602, AC007682, AC004825, AC004882, AC006525, AL137191, AC006356, Z82250, AL079306, AP000036, AL121754, AC004100, AC007656, AP000473, AC003691, AC004502, AC002072, AC005324, AL009031, AC007228, AC002326, L78810, AC005216, AC005537, AC007488, AC002377, AC005751, AC011592, AC005155, AC004769, AC004855, AL135783, AC004605, AP000688, AL031599, AC004025, AL022394, AC004582, AC007773, AC004862, AJ229041, AC003035, AC007298, AF205588, AC005681, and AL049176.
HNGEX35	4200	959230	1 - 362	15 - 376	AL110505.
HNGEX76	4201	834919	1 - 323	15 - 337	AF132033.
HNGEX95	4202	572897	1 - 314	15 - 328	
HNGEY41	4203	973310	1 - 534	15 - 548	AL050310.
HNGEY50	4204	676067	1 - 295	15 - 309	

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